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Expertise Applied | Answers Delivered

Littelfuse, Inc.
8755 West Higgins Road, Suite 500
Chicago, IL 60631 USA
(773) 628-1000

March 18th, 2020

RE: LFPCN 41328 - Littelfuse Surface Mounted DO-214AA/DO-214AB/DO214-AC and COMPAK Package Alternative Molding Compound Qualified for TVS STD and SIDACtor and Thyristor for Business Continuous Plan

To: Our Valued Customers

To implement Littelfuse Business Continuous Plan, Littelfuse would like to notify you of newly approved molding compound for surface mounted DO214-AA & DO-214AB & DO-214AC & COMPAK Package products of TVS STD and SIDACtor and Thyristor. The new molding compound are fully approved internally.

All affected products have been fully qualified in accordance with established performance and reliability criteria. The attached pages summarize the qualification results and affected part numbers. Full qualification data and/or samples will be available upon request.

There are no changes on FIT, form, function and reliability of the finished product.

Form, fit, function, changes: None
Part number changes: None
Effective date: June 18th, 2020
Replacement products: N/A
Last time buy: N/A

This notification is for your information and acknowledgement. If you have any other questions or concerns, please contact your local sales team or product team below for further assistance.

We highly value your business and look forward to assisting you whenever possible.

Sincerely,

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800 E. Northwest Highway Des Plaines, IL 60016

Product/Process Change Notice (PCN)

PCN#: LFPCN #41328 Date: Mar 18th, 2020

Product Identification:

DO-214AA & DO-214AB & DO-214AC & COMPAK Package products of TVS STD and SIDACtor and Thyristor

Implementation Date for Change:

Jun 18th, 2020

Contact Information

Name: Jenny Chen / Zhiwei Wang / Meng Wang

Title: Assistant Product Manager/ Prodcut Manager/ Product Manager

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Fax#: N/A

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Category of Change:

- ☐ Assembly Process
- ☐ Data Sheet
- ☐ Technology
- ☐ Discontinuance/Obsolescence
- ☐ Equipment
- ☐ Manufacturing Site
- ☒ Raw Material
- ☐ Testing
- ☐ Fabrication Process
- ☐ Other: _____

Description of Change:

Approve new molding compound for all DO-214AA & DO-214AB & DO-214AC & COMPAK package products of TVS STD and SIDACtor and Thyristor.

There are no changes on FIT, form, and function of the finished product.

All affected products have been fully qualified in accordance with established performance and reliability criteria.

All relevant details are included in the supplemental pages.

Important Dates:

- ☒ Qualification Samples Available: sample available upon request
- ☐ Last Time Buy:
- ☒ Final Qualification Data Available: March 12th 2020
- ☐ Date of Final Product Shipment:

Method of Distinguishing Changed Product

- ☐ Product Mark,
- ☒ Date Code, traceability data available upon request
- ☐ Other,

Demonstrated or Anticipated Impact on Form, Fit, Function or Reliability:

N/A

LF Qualification Plan/Results:

Littelfuse Qualification Report is Available as attached and full detail data available upon request.

Customer Acknowledgement of Receipt: Littelfuse requests you acknowledge receipt of this PCN. In your acknowledgement, you can grant approval or request additional information. Littelfuse will assume the change is acceptable if no acknowledgement is received within 30 days of this notice. Lack of any additional response within 90 days of PCN issuance further constitutes acceptance of the change.

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PCN Report

Prepared By : Hellen Yang, Senior Product Engineer
Date : March 12th, 2020
Device : DO-214AA/DO-214AB/DO-214AC commercial TVS& SIDACtor& Thyristor
Revision : A

1.0 Objective:

The purpose of this project is to qualify new molding compound as 2nd source compound materials for Littelfuse DO-214AA/DO-214AB/DO-214AC commercial TVS&SIDACtor&Thyristor Products.

2.0 Applicable Devices:

Commercial TVS DO-214AA/DO-214AB/DO-214AC Product Series
Commercial SIDACtor DO-214AA/DO-214AB/DO-214AC Product Series
Commercial Thyristor DO-214AA/DO-214AC Product series.

3.0 Assembly, Process & Material Differences/Changes:

3.1 Assembly and Process Changes

There are no significant changes in the assembly and process method.

3.2 Material Changes

Add 2nd source compound of DO-214AA/DO-214AB/DO-214AC package.

4.0 Packing Method

There will be no changes in the packing method.

5.0 Physical Differences/Changes:

There is no change in mechanical specification or package outline dimension (POD).

6.0 Reliability Test Results Summary:

TVS test result:

Test Category	Description	Sample P/N	Package	Sample Qty	Littelfuse test Ref#	Contents/ Conditions	Standard	Result Summary
Parametric	Electrical Parameters	SMAJ5.0A	DO-214AC	317	134782	VBR, IR		100% meet published spec.
		P6SMB550CA	DO-214AA	317	134782			
		5.0SMDJ160A	DO-214AB	317	134782			
Reliability	Pre-condition	SMAJ5.0A	DO-214AC	240	129128	SMD qualification parts for TC,AC,H3TRB, Autoclave	JESD22- A113	Follow JESD22-A113D
		P6SMB550CA	DO-214AA	240	133010			
		5.0SMDJ160A	DO-214AB	240	129129			
	DC Blocking (HTRB)	SMAJ5.0A	DO-214AC	77	129128	Tj, VR	JESD22- A108	0% failure at 1008 hours
		P6SMB550CA	DO-214AA	77	133010			
		5.0SMDJ160A	DO-214AB	77	129129			
	Biased Temp & Humidity (H3TRB)	SMAJ5.0A	DO-214AC	40	133135	100V@85C,85%RH,	JESD22-A101	0% failure at 1008 hours
		P6SMB550CA	DO-214AA	40	133010			
		5.0SMDJ160A	DO-214AB	40	129129			
	UHAST	SMAJ5.0A	DO-214AC	40	129128	TA=130C/85%RH 96H	EIA/JESD22-A102B	0% failure at 96 hours
		P6SMB550CA	DO-214AA	40	133010			
		5.0SMDJ160A	DO-214AB	40	129129			
	Temp Cycle	SMAJ5.0A	DO-214AC	40	129128	1000cycles, -55°C & +150°C, dwell time 15mins, transfer time less than 10sec	JESD22-A104	0% failure at 1000 cycles
		P6SMB550CA	DO-214AA	40	133010			
		5.0SMDJ160A	DO-214AB	40	129129			
	Resistance to Solder Heat (RSH)	SMAJ5.0A	DO-214AC	30	129128	260℃, 10 seconds	JESD22- B106	0% failure after RSH
		P6SMB550CA	DO-214AA	30	133010			
		5.0SMDJ160A	DO-214AB	30	129129			

SIDACtor test result:

Test Category	Description	Sample P/N	Package	Sample Qty	Littelfuse test Ref#	Contents/Conditions	Standard	Result Summary
Parametric	Electrical Parameters	P0080S1ALRP	DO-214AC	317	129132	V_{BO}, Vdrm , IH, VT		100% meet published spec.
		P3500SDLRP	DO-214AA	317	133005			
Reliability	DC/AC Blocking (HTRB)	P0080S1ALRP	DO-214AC	77	129132	125℃, 24h at +/-80%Vdrm, AC blocking test with AC peak 80% Vdrm 168/504/1008h	M-1038, Cond. A	0 failure
		P3500SDLRP	DO-214AA	77	133005			
	Temp Cycle	P0080S1ALRP	DO-214AC	40	129132	1000cycles, -55°C & +150° C,	JESD22 A-104	0 failure
		P3500SDLRP	DO-214AA	40	133005			
	H3TRB	P0080S1ALRP	DO-214AC	40	129132	168/504/1008 hours at Tj = 85C/85% RH with device reverse biased at 80% VDRM and not exceed 52V.	EIA/JESD22-A101B	0 failure
		P3500SDLRP	DO-214AA	40	133005			
	UHAST	P0080S1ALRP	DO-214AC	40	129132	96 hours at TA=130° C/85%RH.	EIA/JESD22-A102B	0 failure
		P3500SDLRP	DO-214AA	40	133005			
	RSH	P0080S1ALRP	DO-214AC	30	129132	No preheating Bath 260°C, full submerge 10 sec x 2 time	JESD22- B106	0% failure after RSH
		P3500SDLRP	DO-214AA	30	133005			

Thyristor test result:

Test Category	Description	Sample P/N	Package	Sample Qty	Littelfuse test Ref#	Contents/Conditions	Standard	Result Summary
Parametric Test	Electrical Parameters	K2000S1URP	DO-214AC	353	129139	$I_{GT}/V_{GT}/I_H/I_{DRM}/I_{RRM}$	Datasheet	Meet datasheet spec
		K303K1200SRP	DO-214AA	353	132997			
		S6S1RP	Compak	353	133000			
	High Temperature leakage test	K2000S1URP	DO-214AC	5	129139	T_J, AC Peak 100%V_{DRM} applied		
		K303K1200SRP	DO-214AA	5	132997			
		S6S1RP	Compak	5	133000			
	ITSM	K2000S1URP	DO-214AC	5	129139	Full cycle, f = 50Hz;		
		K303K1200SRP	DO-214AA	5	132997			
		S6S1RP	Compak	5	133000	Single half cycle; f = 50Hz;		
	Thermal Resistance	S6S1RP	Compak	5	103003	Per spec		
Reliability Test	AC Blocking (HTRB)	K2000S1URP	DO-214AC	77	129131	T_J, 1,008hr, Reverse biased at peak AC voltage	MIL-STD-750	no failure at 1,008hr read point
		K303K1200SRP	DO-214AA	77	132992			
		S6S1RP	Compak	77	132999			
	High Humidity High Temp. Reverse Bias (H^3TRB)	K2000S1URP	DO-214AC	77	129131	Ta: 85°C, RH: 85%, 1,008hr, Reverse biased at 80% minV_{BO}	JESD22-A101	no failure at 1,008 hr read point
		K303K1200SRP	DO-214AA	77	132992			
		S6S1RP	Compak	77	132999	Ta: 85°C, RH: 85%, 1,008hr, Reverse biased at 160VDC		
	Temperature Cycling (TC)	K2000S1URP	DO-214AC	77	129131	-55°C&150°C (air to air), Dwell time 15mins,1000 cycles	MIL-STD-750	0 failure at 1000 cycle read point
		K303K1200SRP	DO-214AA	77	132992			
		S6S1RP	Compak	77	132999			
	Unbiased Highly Accelerated Stress Test (UHAST)	K2000S1URP	DO-214AC	77	129131	130°C/85%RH.	JESD22-A118	no failure at 96hr read point
		K303K1200SRP	DO-214AA	77	132992			
		S6S1RP	Compak	77	132999			
	Resistance to Solder Heat (RSH)	K2000S1URP	DO-214AC	30	129131	260°C, 10 seconds	MIL-STD-750	0% failure after RSH
		K303K1200SRP	DO-214AA	30	132992			
		S6S1RP	Compak	30	132999			

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7.0 Electrical Characteristic Summary:

There is no change in electrical characteristics.

8.0 Changed Part Identification:

NA

9.0 Recommendations & Conclusions:

Based on the test results, it is determined that the new epoxy molding compounds are qualified and certified for Littelfuse DO-214AA/DO-214AB/DO-214AC Product Series.

10.0 Approvals:

Hellen Yang
Senior Product Engineer
Littelfuse, Inc.

11.0 Appendix I – Thyristor Affected part number list

PN	PN	PN	PN
K0820S1URP	K0820SRP	S2SRP	S2N1RP
K339K0820S1URP	K321K0820SRP	S4SRP	S4N1RP
K348K0820S1URP	K322K1050SRP	S856S4SRP	S813S4N1RP
K351K0820S1URP	K321AK0820SRP	S893S4SRP	S954S4N1RP
K352K0820S1URP	K307K0820SRP	S6SRP	S984S4N1RP
K353K0820S1URP	K308K0820SRP	S2S1RP	S6N1RP
K0900S1URP	K0900SRP	S4S1RP	L2N3RP
K342K0900S1URP	K1050SRP	S828S4S1RP	L2N5RP
K343K0900S1URP	K311K1050SRP	S6S1RP	L4N3RP
K1050S1URP	K1100SRP	S960S6S1RP	L4N5RP
K349K1050S1URP	K1200SRP	S2S2RP	L4N6RP
K1100S1URP	K1300SRP	S4S2RP	L4N8RP
K1200S1URP	K1400SRP	S827S4S2RP	L6N3RP
K1300S1URP	K298K1400SRP	S872S4S2RP	L6N5RP
K341K1200S1URP	K1500SRP	S6S2RP	L6N6RP
K1400S1URP	K222K1500SRP	S2S3RP	L6N8RP
K1500S1URP	K226K1500SRP	S4S3RP	Q2N3RP
K338K1500S1URP	K301K1500SRP	S853S4S3RP	Q4N3RP
K340K1500S1URP	K314K1050SRP	S6S3RP	Q6N3RP
K336K1800S1URP	K305K1500SRP	S802CS2RP	Q2N4RP
K2000S1URP	K1800SRP	S802CS1RP	Q4N4RP
K345K2000S1URP	K2000SRP	S602CSRP	Q6N4RP
K2200S1URP	K2200SRP	L2X3RP	
K2300S1URP	K2300SRP	L4X3RP	
K2400S1URP	K2400SRP	L6X3RP	
K2500S1URP	K2500SRP	L2X5RP	

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K1800S1URP	K240K2500SRP	L4X5RP	
K329K1500S1URP	K260K2500SRP	L6X5RP	
K330K2000S1URP	K282K2500SRP	L4X6RP	
K347K2200S1URP	K303K1200SRP	L6X6RP	
	K315K1200SRP	L4X8RP	
	K2000SHRP	L6X8RP	
	K2000SHURP	Q1420L4X3RP	
	K2200SHRP	Q2X3RP	
	K2200SHURP	Q4X3RP	
	K2400SHRP	Q6X3RP	
	K2400SHURP	Q2X4RP	
	K2500SHRP	Q4X4RP	
	K2500SHURP	Q6X4RP	
	K300K1801SRP	Q1414Q4X4RP	
	K312K0900SRP	Q1417Q4X4RP	
	K1801SRP		
	K313K1200SRP		
	K316K0900SRP		
	K316AK0900SRP		
	K316BK0900SRP		
	K346AK2200SHRP		
	K347K2200SRP		
	K350K2000SRP		

Appendix II – SIDACtor Affected part number list

PN	PN	PN	PN	PN
P0080S1ALRP	P0640SALRP	P3500SALRP	SMTBJ050A	PP0640SA-LF-T
P0080S1BLRP	P659P0640SARP	P716P3500SARP	SMTBJ056A-006	PP0720SA-LF-T
P833P0080S1BLRP	P712P0640SARP	P4500SBLHLRP	SMTBJ108A-006	PP0800SA-LF-T
P0220S1ALRP	P0641SALRP	PLED64S	SMTBJ120A	PP1100SA-LF-T
P0220S1BLRP	P0720SALRP	PLED70S	SMTBJ162A-006	PP1300SA-LF-T
P0300S1ALRP	P0721SALRP	PLED90S	SMTBJ170A	PP1500SA-LF-T
P0300S1BLRP	P506P0721SALRP	PLED110S	SMTBJ180A-006	PP1800SA-LF-T
P863P0300S1BLRP	P0900SALRP	PLED130S	SMTBJ200A	PP2300SA-LF-T
P0640S1ALRP	P0901SALRP	PLED150S	SMTBJ216A-006	PP2600SA-LF-T
P0640S1BLRP	P1100SALRP	PLED180S	SMTBJ240A	PP3100SA-LF-T
P1800S1ALRP	P675P1100SARP	PLED230S	SMTBJ056A	PP3500SA-LF-T
P1800S1BLRP	P688P1100SARP	PLED260S	3T064ALC-86SMT	PP0300SB-LF-T
P2300S1ALRP	P1101SALRP	PLED310S	3T064BLC-54SMT	PP0640SB-LF-T
P2300S1BLRP	P1200SALRP	PLED350S	3T064BLC-89T7	PP0720SB-LF-T
P2600S1ALRP	P811P1200SALRP	PLED380S	3T110B-54SMT	PP0800SB-LF-T
P2600S1BLRP	P1300SALRP	P874PLED480S	3T230A-86SMT	PP1100SB-LF-T
P3100S1ALRP	P697P1300SARP	P880PLED480S	3T230A-CSMT	PP1300SB-LF-T
P3100S1BLRP	P1301SALRP	P0640SBLRP	3T230B-CSMT	PP1500SB-LF-T
P3500S1ALRP	P1500SALRP	P0720SBLRP	3T260A-CSMT7	PP1800SB-LF-T
P3500S1BLRP	P1701SALRP	P0900SBLRP	3T260B-CSMT	PP2300SB-LF-T

P869P0080S1CLRP	P1800SALRP	P858P0900SCLRP	3T260B-CSMT7	PP2600SB-LF-T
P0080S3NLRP	P779P1800SALRP	P1100SBLRP	3T310A-54SMT	PP3100SB-LF-T
P0300S3NLRP	P2000SALRP	P1200SBLRP	3T310B-CSMT	PP3500SB-LF-T
3T064ALC-54SMT	P776P2000SALRP	P1300SBLRP	3T310B-CSMT7	P0080SBLRP
3T064ALC-CSMT	P2100SALRP	P1500SBLRP	3T350A-CSMT	P678P0080SBRP
3T064ALC-CSMT7	P2300SALRP	P1500SBLRP-N	TSMBJ0510C-7P	P792P0080SBLRP
3T072ALC-54SMT	P2500SALRP	P1800SBLRP	TSMBJ0516C-TP	P857P0080SCLRP
3T072ALC-86SMT	P2600SALRP	P2000SBLRP	P0080SALRP	P0080SBMCLRP
3T072ALC-CSMT	P3100SALRP	P2100SBLRP	P817P0080SALRP	P0220SBLRP
3T072ALC-CSMT7	P651P3100SARP	P2300SBLRP	P0080SAMCLRP	P0220SBMCLRP
3T080ALC-54SMT	P707P3100SARP	P686P2300SBRP	P0080SAMCLRP-	P0300SBLRP
3T080ALC-86SMT	P3100SBLRPH	P708P2300SBRP	P807P0080SAMCLRP	P0300SBMCLRP
3T080ALC-CSMT	P3500SBLRP	P2300SBLRP-N	P0220SALRP	P1800STLRP
3T080ALC-CSMT7	P496P3500SBLRP	P2500SBLRP	P818P0220SALRP	P2300STLRP
3T110A-54SMT	P655P3500SBRP	P2600SBLRP	P0220SAMCLRP	P2600STLRP
3T110A-86SMT	P770P3500SBLRP	P591P2600SBLRP	P0240SBLRP	P3100STLRP
3T110A-CSMT	P784P3500SBLRP	P653P2600SBRP	P0300SALRP	P3500STLRP
3T110A-CSMT7	P793P3500SBLRP	P831P2600SBLRP	P566P0300SALRP	3T260C-CSMT7
3T110ALC-54SMT	P838P3500SCLRP	P3100SBLRP	P658P0300SARP	3T260CLC-54SMT
3T110ALC-86SMT	P4500SBLRP	P486P3100SBRP	P695P0300SARP	3T260CLC-86SMT
3T110ALC-CSMT	P839P4500SCLRP	P640P3100SBRP	P0300SAMCLRP	3T260CLC-CSMT
3T110ALC-CSMT7	P844P4500SCLRP	P654P3100SBRP	P821P0080SCLRP	3T260CLC-CSMT7
3T130A-54SMT	P4500SCLHLRP	P654P3100SBRPH	P0181SALRP	3T310C-54SMT
3T130A-86SMT	PDT5061-T	P654P3100SBRPHF	PLED6S	3T310CLC-54SMT
3T130A-CSMT	SPH0004CRP	P809P3100SBLRP	PLED6US	3T310CLC-86SMT
3T130A-CSMT7	P3100SXLRP	P842P3100SBLRP	PLED9S	3T310CLC-CSMT
3T130ALC-54SMT	3T230ALC-CSMT	P3100SBLRP-	PLED9US	3T310CLC-CSMT7
3T130ALC-86SMT	3T230ALC-CSMT7	3T130BLC-CSMT	P871PLED9US	3T350C-54SMT
3T130ALC-CSMT	3T260A-54SMT	3T130BLC-CSMT7	PLED13S	3T350C-86SMT
3T130ALC-CSMT7	3T260A-86SMT	3T150B-54SMT	PLED18S	3T350C-CSMT7
3T150A-54SMT	3T260A-CSMT	3T150B-86SMT	PLED13US	3T400C-54SMT
3T150A-86SMT	3T260ALC-54SMT	3T150B-CSMT	PLED18US	3T400C-86SMT
3T150A-CSMT	3T260ALC-86SMT	3T150B-CSMT7	PLED35US	SMTBJ050B
3T150A-CSMT7	3T260ALC-CSMT	3T150BLC-54SMT	PL865PLED18US	SMTBJ070B
3T150ALC-54SMT	3T260ALC-CSMT7	3T150BLC-86SMT	P1500SCLRP	SMTBJ100B
3T150ALC-86SMT	3T310A-86SMT	3T150BLC-CSMT	P753P1500SCLRP	SMTBJ200B
3T150ALC-CSMT	3T310A-CSMT	3T150BLC-CSMT7	P753AP1500SCLRP	3T110C-CSMT
3T150ALC-CSMT7	3T310A-CSMT7	3T180B-54SMT	P753BP1500SCLRP	3T110C-CSMT7
3T180A-54SMT	3T310ALC-54SMT	3T180B-86SMT	P753CP1500SCLRP	3T130C-CSMT
3T180A-86SMT	3T310ALC-86SMT	3T180B-CSMT	P753DP1500SCLRP	3T130C-CSMT7
3T180A-CSMT	3T310ALC-CSMT	3T180B-CSMT7	P926WRP	3T150C-CSMT
3T180A-CSMT7	3T310ALC-CSMT7	3T180BLC-54SMT	P927WRP	3T150C-CSMT7
3T180ALC-54SMT	3T350A-54SMT	3T180BLC-86SMT	P465P1500SCRP	3T180C-CSMT
3T180ALC-86SMT	3T350A-86SMT	3T180BLC-CSMT	P1500SCLRP-N1	3T230C-CSMT
3T180ALC-CSMT	3T350A-CSMT7	3T180BLC-CSMT7	P1500SCLRP-N2	3T230C-CSMT7
3T180ALC-CSMT7	3T400A-54SMT	3T230B-54SMT	P1500SCMCLRP	3T260C-CSMT

3T230A-54SMT	3T400A-86SMT	3T230B-86SMT	P1500SCMCL-N	3T310C-CSMT
3T230A-CSMT7	3T400A-CSMT	3T230B-CSMT7	P1800SCLRP	3T310C-CSMT7
3T230ALC-54SMT	3T400A-CSMT7	3T230BLC-54SMT	P677P1800SCRP	3T310CLC-77SMT
3T230ALC-86SMT	3T064BLC-86SMT	3T230BLC-86SMT	P1800SCLRP-N	3T350C-CSMT
P0080SCLRP	3T064BLC-CSMT	3T230BLC-CSMT	P1800SCLRP-	3T400C-4T7
P763P0080SCLRP	3T064BLC-CSMT7	3T230BLC-CSMT7	P1800SCMCLRP	3T400C-CSMT
P763AP0080SCLRP	3T072BLC-54SMT	3T260B-54SMT	P2000SCLRP	3T400C-CSMT7
P0080SCMCLRP	3T072BLC-86SMT	3T260B-86SMT	P777P2000SCLRP	PP0640SC-LF-T
P0080SCMCLRP-N	3T072BLC-CSMT	3T260BLC-54SMT	P2000SCMCLRP	PP0720SC-LF-T
P0080SCLRP-N1	3T072BLC-CSMT7	3T260BLC-86SMT	P2100SCLRP	PP0800SC-LF-T
P0080SCLRP-N2	3T080BLC-54SMT	3T260BLC-CSMT	P2100SCMCLRP	PP1100SC-LF-T
P825P3500SCMCLRP	3T080BLC-86SMT	3T260BLC-CSMT7	P2300SCLRP	PP1300SC-LF-T
P0220SCLRP	3T080BLC-CSMT	3T310B-54SMT	P762P2300SCLRP	PP1500SC-LF-T
P0220SCMCLRP	3T080BLC-CSMT7	3T310B-86SMT	P762AP2300SCLRP	PP1800SC-LF-T
P0300SCLRP	3T110B-86SMT	3T310BLC-54SMT	P2300SCMCLRP	PP2300SC-LF-T
P761P0300SCLRP	3T110B-CSMT	3T310BLC-86SMT	P2500SCLRP	PP2600SC-LF-T
P761AP0300SCLRP	3T110B-CSMT7	3T310BLC-CSMT	P2500SCMCLRP	PP3100SC-LF-T
P931WRP	3T110BLC-54SMT	3T310BLC-CSMT7	P469P2600SCLRP	PP3500SC-LF-T
P0300SCMCLRP	3T110BLC-86SMT	3T350B-54SMT	P2600SCLRP	PP4500SD-LF-T
P691P0300SCMCRP	3T110BLC-CSMT	3T350B-86SMT	P820P2600SCLRP	TSMBJ1022C-TP
P0300SCLRP-N1	3T110BLC-CSMT7	3T350B-CSMT	P759P2600SCLRP	3T064CLC-54SMT
P0300SCLRP-N2	3T130B-54SMT	3T350B-CSMT7	P759AP2600SCLRP	3T064CLC-86SMT
P0640SCLRP	3T130B-86SMT	3T400B-54SMT	P766P2600SCLRP	3T064CLC-CSMT
P676P0640SCRP	3T130B-CSMT	3T400B-86SMT	P766AP2600SCLRP	3T064CLC-CSMT7
P764P0640SCLRP	3T130B-CSMT7	3T400B-CSMT	P774P2600SCLRP	3T072CLC-54SMT
P764AP0640SCLRP	3T130BLC-54SMT	3T400B-CSMT7	P875P2600SCLRP	3T072CLC-86SMT
P832P0640SCLRP	3T130BLC-86SMT	P0080SDLRP	P2600SCMCLRP	3T072CLC-CSMT
P0640SCLRP-	P0641SCLRP	P835P0080SDLRP	P3100SCLRP	3T072CLC-CSMT7
P0640SCMCLRP	P0721SCLRP	P0640SDLRP	P440P3100SCRP	3T080CLC-54SMT
P0640SCLRP-N1	P0901SCLRP	P812P0640SDLRP	P618P3100SCRP	3T080CLC-86SMT
P0640SCLRP-N2	P1101SCLRP	P0720SDLRP	P641P3100SCRP	3T080CLC-CSMT
P868P0640SCLRP	P1201SCLRP	P813P0720SDLRP	P754P3100SCLRP	3T080CLC-CSMT7
P873P0640SCLRP	P856P1201SCLRP	P767P0720SDLRP	P754AP3100SCLRP	3T110C-54SMT
P872P0720SBLRP	P1301SCLRP	P767AP0720SDLRP	P754BP3100SCLRP	3T110C-86SMT
P0720SCLRP	P465P1500SCRP	P0900SDLRP	P754CP3100SCLRP	3T110CLC-54SMT
P755P0720SCLRP	P1701SCLRP	P923CRP	P754DP3100SCLRP	3T110CLC-86SMT
P755AP0720SCLRP	P0641SDLRP	P1100SDLRP	P3100SCLRP-P841	3T110CLC-CSMT
P755BP0720SCLRP	P0721SDLRP	P698CRP	P3100SCLRPP841	3T110CLC-CSMT7
P0720SCMCLRP	P0901SDLRP	P806P1100SDLRP	P3100SCL-N	3T130C-54SMT
P0720SCLRP-N	P1101SDLRP	P1300SDLRP	P3100SCLRP-	3T130C-86SMT
P0900SCLRP	P829P1101SDLRP	P810P1300SDLRP	P3100SCMCLRP	3T130CLC-54SMT
P626P0900SCLRP	P829AP1101SDLRP	P925CRP	P3100SDLHLRP	3T130CLC-86SMT
P0900SCMCLRP	P1301SDLRP	P1500SDLRP	P3500SCLRP	3T130CLC-CSMT
P1100SCLRP	P1701SDLRP	P376P1500SCRP	P794P3500SCLRP	3T130CLC-CSMT7
P689P1100SCRP	P2601SDLRP	P674P1500SCRP	P681P3500SCRP	3T150C-54SMT
P698WRP	P3101SDLRP	P768P1500SDLRP	P3500SCL-N	3T150C-86SMT

P923WRP	A0609SCLRP	P768AP1500SDLRP	P3500SCMCLRP	3T150CLC-54SMT
P1100SCMCLRP	P760LRP	P926CRP	P4500SCLRP	3T150CLC-86SMT
P1101SCLRP-N	P760ALRP	P927CRP	P4500SCMCLRP	3T150CLC-CSMT
P1200SCLRP	A0710SCLRP	P931CRP	P4500SDLHLRP	3T150CLC-CSMT7
P1200SCLRP-N	A0709SCLRP	P1800SDLRP	P827P3100SCLRP	3T180C-54SMT
P1200SCMCLRP	PP0640SC-LF-T	P2300SDLRP	P0642SALRP	3T180C-86SMT
P1300SCLRP	PP0720SC-LF-T	P2600SDLRP	P0722SALRP	3T180C-CSMT7
P925WRP	PP0900SC-LF-T	P746P2600SDRP	P0902SALRP	3T180CLC-54SMT
P1300SCMCLRP	PP1100SC-LF-T	P746AP2600SDRP	P1102SALRP	3T180CLC-86SMT
P0642SCLRP	PP1300SC-LF-T	P3100SDLRP	P1302SALRP	3T180CLC-CSMT
P0722SCLRP	P1701CA2LRP	P3100SCHRP	P1502SALRP	3T180CLC-CSMT7
P0902SCLRP	P0641CB2LRP	P765P3100SDLRP	P1802SALRP	3T230C-54SMT
P1102SCLRP	P0721CB2LRP	P765AP3100SDLRP	P2302SALRP	3T230C-86SMT
P1302SCLRP	P0901CB2LRP	P3500SDLRP	P2602SALRP	3T230CLC-54SMT
P1502SCLRP	P1101CB2LRP	P692P3500SDRP	P3002SALRP	3T230CLC-86SMT
P1802SCLRP	P1301CB2LRP	P773P3500SDLRP	P3502SALRP	3T230CLC-CSMT
P2302SCLRP	P1501CB2LRP	P884P3500SDLRP	P4202SALRP	3T230CLC-CSMT7
P2602SCLRP	P1701CB2LRP	PP1100SD-LF-T	P4802SALRP	3T260C-54SMT
P3002SCLRP	A0609CA2LRP	P4802SCLRP	P6002SALRP	3T260C-86SMT
P3502SCLRP	P0721CA2LRP	P6002SCLRP	P6002SALRP-HM	P1802SBLRP
P4202SCLRP	P0901CA2LRP	P7002SCLRP	P7002SALRP	P2302SBLRP
P772P4202SCLRP	P1101CA2LRP	P862P7002SCLRP	P0642SBLRP	P2602SBLRP
P797P4202SCLRP	P1301CA2LRP	P0641CA2LRP	P0722SBLRP	P3002SBLRP
P798P4202SCLRP	P1501CA2LRP	P6002SBLRP	P0902SBLRP	P3502SBLRP
P1302SBLRP	P4802SBLRP	P7002SBLRP	P1102SBLRP	P4202SBLRP
P1502SBLRP				

Appendix III – TVS Affected part number list

PN	PN	PN	PN	PN
SMBJ5.0	SMAJ5.0	SACB5.0	1.5SMC16CA-54	5.0SMDJ12A
SMBJ5.0A	SMAJ5.0A	SACB6.0	1.5SMC16CA-54T7	5.0SMDJ12CA
SMBJ5.0C	SMAJ5.0C	SACB7.0	1.5SMC300CA-54T7	5.0SMDJ13A
SMBJ5.0CA	SMAJ5.0CA	SACB8.0	1.5SMC350A-54T7	5.0SMDJ13CA
SMBJ6.0	SMAJ6.0	SACB8.5	1.5SMC400CA-54T7	5.0SMDJ14A
SMBJ6.0A	SMAJ6.0A	SACB10	SMCJ36A-54T7	5.0SMDJ14CA
SMBJ6.0C	SMAJ6.0C	SACB12	SMCJ36CA-54T7	5.0SMDJ15A
SMBJ6.0CA	SMAJ6.0CA	SACB15	SMCJ12CA-N	5.0SMDJ15CA
SMBJ6.5	SMAJ6.5	SACB18	SMCJ36CA-N	5.0SMDJ16A
SMBJ6.5A	SMAJ6.5A	SACB22	SMCJ64CA-N	5.0SMDJ16CA
SMBJ6.5C	SMAJ6.5C	SACB26	SMCJ78CA-N	5.0SMDJ17A
SMBJ6.5CA	SMAJ6.5CA	SACB30	1.5SMC15A-N	5.0SMDJ17CA
SMBJ7.0	SMAJ7.0	SACB36	1.5SMC62A-N	5.0SMDJ18A
SMBJ7.0A	SMAJ7.0A	SACB45	1.5SMC68A-N	5.0SMDJ18CA
SMBJ7.0C	SMAJ7.0C	SACB50	SMCJ10A-GR-GT3	5.0SMDJ20A
SMBJ7.0CA	SMAJ7.0CA	SACB5.0-23-RG70	SMCJ10CA-GT3	5.0SMDJ20CA
SMBJ7.5	SMAJ7.5	HSMBJSAC12	SMCJ10CA-SA-GT3	5.0SMDJ22A

SMBJ7.5A	SMAJ7.5A	HSMBJSAC7.0	SMCJ11CA-SA-GT3	5.0SMDJ22CA
SMBJ7.5C	SMAJ7.5C	1KSMB6.8	SMCJ18CA-GT3	5.0SMDJ24A
SMBJ7.5CA	SMAJ7.5CA	1KSMB6.8A	SMCJ18CA-SA-GT3	5.0SMDJ24CA
SMBJ8.0	SMAJ8.0	1KSMB6.8C	SMCJ24CA-GR-GT3	5.0SMDJ26A
SMBJ8.0A	SMAJ8.0A	1KSMB6.8CA	SMCJ26CA-SA-GT3	5.0SMDJ26CA
SMBJ8.0C	SMAJ8.0C	1KSMB7.5	SMCJ40CA-SA-GT3	5.0SMDJ28A
SMBJ8.0CA	SMAJ8.0CA	1KSMB7.5A	SMCJ43CA-SA-GT3	5.0SMDJ28CA
SMBJ8.5	SMAJ8.5	1KSMB7.5C	SMCJ5.0A-GT3	5.0SMDJ30A
SMBJ8.5A	SMAJ8.5A	1KSMB7.5CA	SMCJ5.0A-SA-GT3	5.0SMDJ30CA
SMBJ8.5C	SMAJ8.5C	1KSMB7.6A	SMCJ150CA-SA-GT3	5.0SMDJ33A
SMBJ8.5CA	SMAJ8.5CA	1KSMB7.6CA	SMCJ170CA-SA-GT3	5.0SMDJ33CA
SMBJ9.0	SMAJ9.0	1KSMB8.2	SMCJ10A-GR-GT3R	5.0SMDJ36A
SMBJ9.0A	SMAJ9.0A	1KSMB8.2A	SMCJ10CA-GT3R	5.0SMDJ36CA
SMBJ9.0C	SMAJ9.0C	1KSMB8.2C	SMCJ10CA-SA-GT3R	5.0SMDJ40A
SMBJ9.0CA	SMAJ9.0CA	1KSMB8.2CA	SMCJ11CA-SA-GT3R	5.0SMDJ40CA
SMBJ10	SMAJ10	1KSMB9.1	SMCJ18CA-GT3R	5.0SMDJ43A
SMBJ10A	SMAJ10A	1KSMB9.1C	SMCJ18CA-SA-GT3R	5.0SMDJ43CA
SMBJ10C	SMAJ10C	1KSMB9.1A	SMCJ24CA-GR-GT3R	5.0SMDJ45A
SMBJ10CA	SMAJ10CA	1KSMB9.1CA	SMCJ26CA-SA-GT3R	5.0SMDJ45CA
SMBJ11	SMAJ11	1KSMB10	SMCJ40CA-SA-GT3R	5.0SMDJ48A
SMBJ11A	SMAJ11A	1KSMB10A	SMCJ43CA-SA-GT3R	5.0SMDJ48CA
SMBJ11C	SMAJ11C	1KSMB10C	SMCJ5.0A-GT3R	5.0SMDJ51A
SMBJ11CA	SMAJ11CA	1KSMB10CA	SMCJ5.0A-SA-GT3R	5.0SMDJ51CA
SMBJ12	SMAJ12	1KSMB11	1.5SMC18A-23-TR71	5.0SMDJ54A
SMBJ12A	SMAJ12A	1KSMB11A	1.5SMC18CA-23-TR71	5.0SMDJ54CA
SMBJ12C	SMAJ12C	1KSMB11C	SMCJ6.0CA-23-TR71	5.0SMDJ58A
SMBJ12CA	SMAJ12CA	1KSMB11CA	SMCJ6.5A-23-TR71	5.0SMDJ58CA
SMBJ13	SMAJ13	1KSMB12	SMCJ6.5CA-23-TR71	5.0SMDJ60A
SMBJ13A	SMAJ13A	1KSMB12A	SMCJ7.0A-23-TR71	5.0SMDJ60CA
SMBJ13C	SMAJ13C	1KSMB12C	SMCJ7.0CA-23-TR71	5.0SMDJ64A
SMBJ13CA	SMAJ13CA	1KSMB12CA	SMCJ7.0CA-23-RG71	5.0SMDJ64CA
SMBJ14	SMAJ14	1KSMB13	SMCJ8.5CA-23-TR71	5.0SMDJ70A
SMBJ14A	SMAJ14A	1KSMB13A	SMCJ8.5CA-23-RG71	5.0SMDJ70CA
SMBJ14C	SMAJ14C	1KSMB13C	SMCJ11A-23-TR71	5.0SMDJ75A
SMBJ14CA	SMAJ14CA	1KSMB13CA	SMCJ13A-23-TR71	5.0SMDJ75CA
SMBJ15	SMAJ15	1KSMB15	SMCJ17CA-23-TR71	5.0SMDJ78A
SMBJ15A	SMAJ15A	1KSMB15A	SMCJ17CA-23-RG71	5.0SMDJ78CA
SMBJ15C	SMAJ15C	1KSMB15C	SMCJ18A-23-RG71	5.0SMDJ85A
SMBJ15CA	SMAJ15CA	1KSMB15CA	SMCJ18A-23-TR71	5.0SMDJ85CA
SMBJ16	SMAJ16	1KSMB16	SMCJ18CA-23-TR71	5.0SMDJ90A
SMBJ16A	SMAJ16A	1KSMB16A	SMCJ20CA-23-TR71	5.0SMDJ90CA
SMBJ16C	SMAJ16C	1KSMB16C	SMCJ24A-23-TR71	5.0SMDJ100A
SMBJ16CA	SMAJ16CA	1KSMB16CA	SMCJ24CA-23-TR71	5.0SMDJ100CA
SMBJ17	SMAJ17	1KSMB18	SMCJ30A-23-TR71	5.0SMDJ110A
SMBJ17A	SMAJ17A	1KSMB18A	SMCJ40CA-23-TR71	5.0SMDJ110CA
SMBJ17C	SMAJ17C	1KSMB18C	SMCJ48A-23-TR71	5.0SMDJ120A

SMBJ17CA	SMAJ17CA	1KSMB18CA	SMCJ51CA-23-TR71	5.0SMDJ120CA
SMBJ18	SMAJ18	1KSMB20	SMCJ54A-23-TR71	5.0SMDJ130A
SMBJ18A	SMAJ18A	1KSMB20A	SMCJ60CA-23-RG71	5.0SMDJ130CA
SMBJ18C	SMAJ18C	1KSMB20C	SMCJ75CA-23-TR71	5.0SMDJ140A
SMBJ18CA	SMAJ18CA	1KSMB20CA	SMCJ85CA-23-TR71	5.0SMDJ140CA
SMBJ20	SMAJ20	1KSMB22	SMCJ5.0A-T7	5.0SMDJ150A
SMBJ20A	SMAJ20A	1KSMB22A	SMCJ58A-T7	5.0SMDJ150CA
SMBJ20C	SMAJ20C	1KSMB22C	SMCJ64A-T7	5.0SMDJ160A
SMBJ20CA	SMAJ20CA	1KSMB22CA	SMCJ70A-T7	5.0SMDJ160CA
SMBJ22	SMAJ22	1KSMB24	SMCJ24CAS-GR-GT3	5.0SMDJ170A
SMBJ22A	SMAJ22A	1KSMB24A	SMCJ24CAS-GR-GT7	5.0SMDJ170CA
SMBJ22C	SMAJ22C	1KSMB24C	SMCJ15CA-ZG	5.0SMDJ12A-T7
SMBJ22CA	SMAJ22CA	1KSMB24CA	SMCJ14A-TN	5.0SMDJ12CA-T7
SMBJ24	SMAJ24	1KSMB27	SMCJ120A-L	5.0SMDJ13A-T7
SMBJ24A	SMAJ24A	1KSMB27A	SMCJ130A-AE	5.0SMDJ13CA-T7
SMBJ24C	SMAJ24C	1KSMB27C	SMCJ20A-TN	5.0SMDJ14A-T7
SMBJ24CA	SMAJ24CA	1KSMB27CA	SMCJ5.0CAS-GT3	5.0SMDJ14CA-T7
SMBJ26	SMAJ26	1KSMB30	SMCJ5.0CAS-GT7	5.0SMDJ15A-T7
SMBJ26A	SMAJ26A	1KSMB30A	SMCJ6.5CAS-GT3	5.0SMDJ15CA-T7
SMBJ26C	SMAJ26C	1KSMB30C	SMCJ6.5CAS-GT7	5.0SMDJ16A-T7
SMBJ26CA	SMAJ26CA	1KSMB30CA	SMCJ10CAS-GT3	5.0SMDJ16CA-T7
SMBJ28	SMAJ28	1KSMB33	SMCJ10CAS-GT7	5.0SMDJ17A-T7
SMBJ28A	SMAJ28A	1KSMB33A	SMCJ17CAS-GT3	5.0SMDJ17CA-T7
SMBJ28C	SMAJ28C	1KSMB33C	SMCJ17CAS-GT7	5.0SMDJ18A-T7
SMBJ28CA	SMAJ28CA	1KSMB33CA	SMCJ18CAS-GT3	5.0SMDJ18CA-T7
SMBJ30	SMAJ30	1KSMB36	SMCJ18CAS-GT7	5.0SMDJ20A-T7
SMBJ30A	SMAJ30A	1KSMB36A	SMCJ40CAS-GT3	5.0SMDJ20CA-T7
SMBJ30C	SMAJ30C	1KSMB36C	SMCJ40CAS-GT7	5.0SMDJ22A-T7
SMBJ30CA	SMAJ30CA	1KSMB36CA	SMCJ48CAS-GT3	5.0SMDJ22CA-T7
SMBJ33	SMAJ33	1KSMB39	SMCJ48CAS-GT7	5.0SMDJ24A-T7
SMBJ33A	SMAJ33A	1KSMB39A	SMCJ60CAS-GT3	5.0SMDJ24CA-T7
SMBJ33C	SMAJ33C	1KSMB39C	SMCJ60CAS-GT7	5.0SMDJ26A-T7
SMBJ33CA	SMAJ33CA	1KSMB39CA	SMCJ64CAS-GT3	5.0SMDJ26CA-T7
SMBJ36	SMAJ36	1KSMB43	SMCJ64CAS-GT7	5.0SMDJ28A-T7
SMBJ36A	SMAJ36A	1KSMB43A	SMCJ5.0AS-GT3	5.0SMDJ28CA-T7
SMBJ36C	SMAJ36C	1KSMB43C	SMCJ5.0AS-GT7	5.0SMDJ30A-T7
SMBJ36CA	SMAJ36CA	1KSMB43CA	SMCJ6.5AS-GT3	5.0SMDJ30CA-T7
SMBJ40	SMAJ40	1KSMB47	SMCJ6.5AS-GT7	5.0SMDJ33A-T7
SMBJ40A	SMAJ40A	1KSMB47A	SMCJ10AS-GT3	5.0SMDJ33CA-T7
SMBJ40C	SMAJ40C	1KSMB47C	SMCJ10AS-GT7	5.0SMDJ36A-T7
SMBJ40CA	SMAJ40CA	1KSMB47CA	SMCJ17AS-GT3	5.0SMDJ36CA-T7
SMBJ43	SMAJ43	1KSMB51	SMCJ17AS-GT7	5.0SMDJ40A-T7
SMBJ43A	SMAJ43A	1KSMB51A	SMCJ18AS-GT3	5.0SMDJ40CA-T7
SMBJ43C	SMAJ43C	1KSMB51C	SMCJ18AS-GT7	5.0SMDJ43A-T7
SMBJ43CA	SMAJ43CA	1KSMB51CA	SMCJ40AS-GT3	5.0SMDJ43CA-T7
SMBJ45	SMAJ45	1KSMB56A	SMCJ40AS-GT7	5.0SMDJ45A-T7

SMBJ45A	SMAJ45A	1KSMB56C	SMCJ48AS-GT3	5.0SMDJ45CA-T7
SMBJ45C	SMAJ45C	1KSMB56CA	SMCJ48AS-GT7	5.0SMDJ48A-T7
SMBJ45CA	SMAJ45CA	1KSMB56	SMCJ60AS-GT3	5.0SMDJ48CA-T7
SMBJ48	SMAJ48	1KSMB62	SMCJ60AS-GT7	5.0SMDJ51A-T7
SMBJ48A	SMAJ48A	1KSMB62A	SMCJ64AS-GT3	5.0SMDJ51CA-T7
SMBJ48C	SMAJ48C	1KSMB62C	SMCJ64AS-GT7	5.0SMDJ54A-T7
SMBJ48CA	SMAJ48CA	1KSMB62CA	SMCJ350A-SCH	5.0SMDJ54CA-T7
SMBJ51	SMAJ51	1KSMB68	SMCJ200A-SF	5.0SMDJ58A-T7
SMBJ51A	SMAJ51A	1KSMB68A	SMCJ200CA-SF	5.0SMDJ58CA-T7
SMBJ51C	SMAJ51C	1KSMB68C	1.5SMC68A-BW	5.0SMDJ60A-T7
SMBJ51CA	SMAJ51CA	1KSMB68CA	SMCJ12CA-ER	5.0SMDJ60CA-T7
SMBJ54	SMAJ54	1KSMB75	SMCJ6.5A-ER	5.0SMDJ64A-T7
SMBJ54A	SMAJ54A	1KSMB75A	SMCJ6.5A-ER1	5.0SMDJ64CA-T7
SMBJ54C	SMAJ54C	1KSMB75C	SMCJ6.5CA-ER	5.0SMDJ70A-T7
SMBJ54CA	SMAJ54CA	1KSMB75CA	SMCJ6.5CA-ER1	5.0SMDJ70CA-T7
SMBJ58	SMAJ58	1KSMB82	SMCJ6.5CA-ER2	5.0SMDJ75A-T7
SMBJ58A	SMAJ58A	1KSMB82A	SMCJ60CA-ER	5.0SMDJ75CA-T7
SMBJ58C	SMAJ58C	1KSMB82C	SMCJ64CA-ER	5.0SMDJ78A-T7
SMBJ58CA	SMAJ58CA	1KSMB82CA	SMCJ75A-ER	5.0SMDJ78CA-T7
SMBJ60	SMAJ60	1KSMB91	SMCJ75CA-ER	5.0SMDJ85A-T7
SMBJ60A	SMAJ60A	1KSMB91A	SMCJ8.0CA-ER	5.0SMDJ85CA-T7
SMBJ60C	SMAJ60C	1KSMB91C	1.5SMC75A-ER	5.0SMDJ90A-T7
SMBJ60CA	SMAJ60CA	1KSMB91CA	SMDJ5.0	5.0SMDJ90CA-T7
SMBJ64	SMAJ64	1KSMB100	SMDJ5.0A	5.0SMDJ100A-T7
SMBJ64A	SMAJ64A	1KSMB100A	SMDJ5.0C	5.0SMDJ100CA-T7
SMBJ64C	SMAJ64C	1KSMB100C	SMDJ5.0CA	5.0SMDJ110A-T7
SMBJ64CA	SMAJ64CA	1KSMB100CA	SMDJ6.0	5.0SMDJ110CA-T7
SMBJ70	SMAJ70	1KSMB110	SMDJ6.0A	5.0SMDJ120A-T7
SMBJ70A	SMAJ70A	1KSMB110A	SMDJ6.0C	5.0SMDJ120CA-T7
SMBJ70C	SMAJ70C	1KSMB110C	SMDJ6.0CA	5.0SMDJ130A-T7
SMBJ70CA	SMAJ70CA	1KSMB110CA	SMDJ6.5	5.0SMDJ130CA-T7
SMBJ75	SMAJ75	1KSMB120	SMDJ6.5A	5.0SMDJ140A-T7
SMBJ75A	SMAJ75A	1KSMB120A	SMDJ6.5C	5.0SMDJ140CA-T7
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SMBJ78	SMAJ78	1KSMB130	SMDJ7.0A	5.0SMDJ160A-T7
SMBJ78A	SMAJ78A	1KSMB130A	SMDJ7.0C	5.0SMDJ160CA-T7
SMBJ78C	SMAJ78C	1KSMB130C	SMDJ7.0CA	5.0SMDJ170A-T7
SMBJ78CA	SMAJ78CA	1KSMB130CA	SMDJ7.5	5.0SMDJ170CA-T7
SMBJ85	SMAJ85A	1KSMB150	SMDJ7.5A	5.0SMDJ6.0AS
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SMBJ90C	SMAJ90C	1KSMB160C	SMDJ8.0CA	5.0SMDJ7.5AS

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SMBJ130C	SMAJ130C	1.5SMB27A	SMDJ11CA	5.0SMDJ14AS
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P6SMB200CA	P4SMA220A	SMCJ130A	SMDJ20CA-T7	8.0SMDJ100A-T7
P6SMB220	P4SMA220C	SMCJ130C	SMDJ22A-T7	8.0SMDJ100CA-T7
P6SMB220A	P4SMA220CA	SMCJ130CA	SMDJ22CA-T7	8.0SMDJ110A-T7
P6SMB220C	P4SMA250	SMCJ150	SMDJ24A-T7	8.0SMDJ110CA-T7
P6SMB220CA	P4SMA250A	SMCJ150A	SMDJ24CA-T7	8.0SMDJ36CA-ER
P6SMB250	P4SMA250C	SMCJ150C	SMDJ26A-T7	1.5SMC250CA
P6SMB250A	P4SMA250CA	SMCJ150CA	SMDJ26CA-T7	1.5SMC300
P6SMB250C	P4SMA300	SMCJ160	SMDJ28A-T7	1.5SMC300A
P6SMB250CA	P4SMA300A	SMCJ160A	SMDJ28CA-T7	1.5SMC300C
P6SMB300	P4SMA300C	SMCJ160C	SMDJ30A-T7	1.5SMC300CA
P6SMB300A	P4SMA300CA	SMCJ160CA	SMDJ30CA-T7	1.5SMC350
P6SMB300C	P4SMA350	SMCJ170	SMDJ33A-T7	1.5SMC350A
P6SMB300CA	P4SMA350A	SMCJ170A	SMDJ33CA-T7	1.5SMC350C
P6SMB350	P4SMA350C	SMCJ170C	SMDJ36A-T7	1.5SMC350CA
P6SMB350A	P4SMA350CA	SMCJ170CA	SMDJ36CA-T7	1.5SMC400
P6SMB350C	P4SMA400	SMCJ180	SMDJ40A-T7	1.5SMC400A
P6SMB350CA	P4SMA400A	SMCJ180A	SMDJ40CA-T7	1.5SMC400C
P6SMB400	P4SMA400C	SMCJ180C	SMDJ43A-T7	1.5SMC400CA

P6SMB400A	P4SMA400CA	SMCJ180CA	SMDJ43CA-T7	1.5SMC440
P6SMB400C	P4SMA440	SMCJ200	SMDJ45A-T7	1.5SMC440A
P6SMB400CA	P4SMA440A	SMCJ200A	SMDJ45CA-T7	1.5SMC440C
P6SMB440	P4SMA440C	SMCJ200C	SMDJ48A-T7	1.5SMC440CA
P6SMB440A	P4SMA440CA	SMCJ200CA	SMDJ48CA-T7	1.5SMC480
P6SMB440C	P4SMA480	SMCJ220	SMDJ51A-T7	1.5SMC480A
P6SMB440CA	P4SMA480A	SMCJ220A	SMDJ51CA-T7	1.5SMC480C
P6SMB480	P4SMA480C	SMCJ220C	SMDJ54A-T7	1.5SMC480CA
P6SMB480A	P4SMA480CA	SMCJ220CA	SMDJ54CA-T7	1.5SMC510
P6SMB480C	P4SMA510	SMCJ250	SMDJ58A-T7	1.5SMC510A
P6SMB480CA	P4SMA510A	SMCJ250A	SMDJ58CA-T7	1.5SMC510C
P6SMB510A	P4SMA510C	SMCJ250C	SMDJ60CA-T7	1.5SMC510CA
P6SMB510	P4SMA510CA	SMCJ250CA	SMDJ60A-T7	1.5SMC530
P6SMB510C	P4SMA530	SMCJ300	SMDJ64CA-T7	1.5SMC530A
P6SMB510CA	P4SMA530A	SMCJ300A	SMDJ64A-T7	1.5SMC530C
P6SMB530	P4SMA530C	SMCJ300C	SMDJ70A-T7	1.5SMC530CA
P6SMB530A	P4SMA530CA	SMCJ300CA	SMDJ70CA-T7	1.5SMC540
P6SMB530C	P4SMA540	SMCJ350	SMDJ75A-T7	1.5SMC540A
P6SMB530CA	P4SMA540A	SMCJ350A	SMDJ75CA-T7	1.5SMC540C
P6SMB540	P4SMA540C	SMCJ350C	SMDJ78CA-T7	1.5SMC540CA
P6SMB540A	P4SMA540CA	SMCJ350CA	SMDJ78A-T7	1.5SMC550
P6SMB540C	P4SMA550	SMCJ400	SMDJ85A-T7	1.5SMC550A
P6SMB540CA	P4SMA550A	SMCJ400A	SMDJ85CA-T7	1.5SMC550C
P6SMB550	P4SMA550C	SMCJ400C	SMDJ90A-T7	1.5SMC550CA
P6SMB550A	P4SMA550CA	SMCJ400CA	SMDJ90CA-T7	1.5SMC600A
P6SMB550C	SMA6J12A	SMCJ440	SMDJ100A-T7	1.5SMC600CA
P6SMB550CA	SMA6J5.0A	SMCJ440A	SMDJ100CA-T7	P6SMB15CA-HW
P6SMB600A	SMA6J5.0CA	SMCJ440C	SMDJ110A-T7	SMBJ100A-ER
P6SMB600CA	SMA6J6.0A	SMCJ440CA	SMDJ110CA-T7	SMBJ110CA-ER
SMBJ11CA-54	SMA6J6.0CA	1.5SMC6.8	SMDJ120A-T7	SMBJ15CA-ER
SMBJ12A-54T7	SMA6J6.5A	1.5SMC6.8A	SMDJ120CA-T7	SMBJ18CA-ER
SMBJ15C-54T7	SMA6J6.5CA	1.5SMC6.8C	SMDJ130A-T7	SMBJ28CA-ER
SMBJ26CA-54	SMA6J7.0A	1.5SMC6.8CA	SMDJ130CA-T7	SMBJ5.0A-ER
SMBJ26CA-54T7	SMA6J7.0CA	1.5SMC7.5	SMDJ150A-T7	SMBJ58CA-ER
SMBJ36C-54T7	SMA6J7.5A	1.5SMC7.5A	SMDJ150CA-T7	SMBJ6.0CA-ER
SMBJ36CA-54T7	SMA6J7.5CA	1.5SMC7.5C	SMDJ160CA-T7	SMBJ64A-ER
SMBJ45A-54	SMA6J8.0A	1.5SMC7.5CA	SMDJ160A-T7	SMBJ64A-ER1
SMBJ5.0A-54	SMA6J8.0CA	1.5SMC8.2	SMDJ170CA-T7	SMBJ70CA-ER
SMBJ6.0A-54	SMA6J8.5A	1.5SMC8.2A	SMDJ170A-T7	SMBJ85CA-ER
SMBJ75A-54T7	SMA6J8.5CA	1.5SMC8.2C	SMDJ20A-	SMDJ180CA-54T7
SMBJ5.0A-N	SMA6J9.0A	1.5SMC8.2CA	SMDJ58CA-N	3.0SMCJ18CA-GRGT7R
SMBJ70A-N	SMA6J9.0CA	1.5SMC9.1	SMDJ20A-HW	3.0SMCJ20CA-GRGT7R
SMBJ100CA-N	SMA6J10A	1.5SMC9.1A	SMDJ64A-HW	SMDJ20CA-ZG
P6SMB6.8CA-N	SMA6J10CA	1.5SMC9.1C	SMDJ20A-100	3.0SMCJ5.0CA-GRGT7
P6SMB75A-N	SMA6J11A	1.5SMC9.1CA	SMDJ20A-101	SMDJ16A-ER
SMBJ6.0CA-SA-GT3	SMA6J11CA	1.5SMC10	SMDJ20A-TN	SMDJ16A-ER1

SMBJ6.0CA-GT3	SMA6J12A	1.5SMC10A	SMDJ20A-TN7	SMDJ75CA-ER
SMBJ7.5CA-GT3	SMA6J12CA	1.5SMC10C	SMDJ6.0CA-HW1	3.0SMCJ48CAS-GRGT3
SMBJ7.5CA-SA-GT3	SMA6J13A	1.5SMC10CA	SMDJ6.0CA-N	3.0SMCJ48CAS-GRGT7
SMBJ11CA-SA-GT3	SMA6J13CA	1.5SMC11	3.0SMCJ10A-SA-GT3	3.0SMCJ150CASGRGT3
SMBJ12CA-SA-GT3	SMA6J14A	1.5SMC11A	3.0SMCJ11CA-SA-GT3	3.0SMCJ150CASGRGT7
SMBJ20CA-SA-GT3	SMA6J14CA	1.5SMC11C	3.0SMCJ120CA-GT3	SMDJ70CA-N
SMBJ33CA-GT3	SMA6J15A	1.5SMC11CA	3.0SMCJ12A-GT3	3.0SMCJ33CA-GR-GT3
SMBJ36A-GT3	SMA6J15CA	1.5SMC12	3.0SMCJ12CA-GT3	3.0SMCJ33CAS-GRGT7
SMBJ45CA-SA-GT3	SMA6J16A	1.5SMC12A	3.0SMCJ13CA-SA-GT3	3.0SMCJ33CAS-GRGT3
SMBJ48A-SA-GT3	SMA6J16CA	1.5SMC12C	3.0SMCJ150CA-GRGT3	3.0SMCJ8.5CASGRGT3
SMBJ170A-SA-GT3	SMA6J17A	1.5SMC12CA	3.0SMCJ15A-GT3	3.0SMCJ8.5CASGRGT7
SMBJ170A-SA-GT3R	SMA6J17CA	1.5SMC13	3.0SMCJ15CA-GR-GT3	3.0SMCJ28CA-GRGT7R
SMBJ6.0CA-SA-GT3R	SMA6J18CA	1.5SMC13A	3.0SMCJ15CA-GT3	3.0SMCJ15CAS-GRGT3
SMBJ7.5CA-GT3R	SMA6J18A	1.5SMC13C	3.0SMCJ16A-GT3	3.0SMCJ15CAS-GRGT7
SMBJ7.5CA-SA-GT3R	SMA6J20A	1.5SMC13CA	3.0SMCJ16CA-GR-GT3	1.5SMC180C
SMBJ11CA-SA-GT3R	SMA6J20CA	1.5SMC15	3.0SMCJ16CA-GT3	1.5SMC180CA
SMBJ12CA-SA-GT3R	SMA6J22A	1.5SMC15A	3.0SMCJ18CA-GR-GT3	1.5SMC200
SMBJ20CA-SA-GT3R	SMA6J22CA	1.5SMC15C	3.0SMCJ20CA-GR-GT3	1.5SMC200A
SMBJ45CA-SA-GT3R	SMA6J24A	1.5SMC15CA	3.0SMCJ20CA-GT3	1.5SMC200C
SMBJ48A-SA-GT3R	SMA6J24CA	1.5SMC16	3.0SMCJ22A-GT3	1.5SMC200CA
SMBJ5.0A-23-TR70	SMA6J26A	1.5SMC16A	3.0SMCJ24A-GT3	1.5SMC220
SMBJ5.0CA-23-TR70	SMA6J26CA	1.5SMC16C	3.0SMCJ24A-SA-GT3	1.5SMC220A
SMBJ6.0A-23-TR70	SMA6J28A	1.5SMC16CA	3.0SMCJ24CA-GT3	1.5SMC220C
SMBJ6.0CA-23-TR70	SMA6J28CA	1.5SMC18	3.0SMCJ24CA-SA-GT3	1.5SMC220CA
SMBJ6.0CA-23-RG70	SMA6J30A	1.5SMC18A	3.0SMCJ24CA-SA-GT7	1.5SMC250
SMBJ6.5A-23-TR70	SMA6J30CA	1.5SMC18C	3.0SMCJ28A-GT3	1.5SMC250A
SMBJ7.0A-23-TR70	SMA6J33A	1.5SMC18CA	3.0SMCJ28CA-GR-GT3	1.5SMC250C
SMBJ7.0CA-23-TR70	SMA6J33CA	1.5SMC20	3.0SMCJ28CAS-GRGT3	P4SMA440A-S
SMBJ7.5CA-23-TR70	SMA6J36A	1.5SMC20A	3.0SMCJ28CAS-GRGT7	SMAJ300A-E
SMBJ7.5CA-23-RG70	SMA6J36CA	1.5SMC20C	3.0SMCJ30A-GT3	SMAJ350A-E
SMBJ8.0A-23-TR70	SMA6J40A	1.5SMC20CA	3.0SMCJ33A-GT3	P4SMA350A-E
SMBJ8.0CA-23-TR70	SMA6J40CA	1.5SMC22	3.0SMCJ33CA-GT3	P4SMA400A-E
SMBJ8.5CA-23-TR70	SMA6J43A	1.5SMC22A	3.0SMCJ36A-GT3	P4SMA440A-E
SMBJ9.0A-23-TR70	SMA6J43CA	1.5SMC22C	3.0SMCJ36CA-GT3	P6SMA440CA-L
SMBJ10A-23-TR70	SMA6J45A	1.5SMC22CA	3.0SMCJ40CA-GR-GT3	SMAJ7.0CA—HS
SMBJ14CA-23-TR70	SMA6J45CA	1.5SMC24	3.0SMCJ40CA-GT3	P4SMA250A-SF
SMBJ15A-23-TR70	SMA6J48A	1.5SMC24A	3.0SMCJ43A-GT3	P4SMA300A-SF
SMBJ16A-23-TR70	SMA6J48CA	1.5SMC24C	3.0SMCJ43A-SA-GT3	P6SMA440A-IE
SMBJ16CA-23-TR70	SMA6J51A	1.5SMC24CA	3.0SMCJ43A-SA-GT7	P6SMA480A-IE
SMBJ16CA-23-RG70	SMA6J51CA	1.5SMC27	3.0SMCJ43CA-SA-GT3	P6SMA510A-IE
SMBJ17A-23-TR70	SMA6J54A	1.5SMC27A	3.0SMCJ43CA-SA-GT7	SMBJ300A-E
SMBJ17A-23-RG70	SMA6J54CA	1.5SMC27C	3.0SMCJ45A-GT3	SMBJ350A-E
SMBJ17CA-23-TR70	SMA6J58A	1.5SMC27CA	3.0SMCJ48A-GT3	P6SMB350A-E
SMBJ18A-23-TR70	SMA6J58CA	1.5SMC30	3.0SMCJ48A-SA-GT3	P6SMB400A-E
SMBJ18CA-23-TR70	SMA6J60A	1.5SMC30A	3.0SMCJ48CA-GR-GT3	P6SMB440A-E
SMBJ22A-23-TR70	SMA6J60CA	1.5SMC30C	3.0SMCJ48CA-SA-GT3	P6SMB6.8CA-HW

SMBJ22CA-23-TR70	SMA6J64A	1.5SMC30CA	3.0SMCJ5.0A-GT3	SMBJ5.0CA-P
SMBJ24CA-23-TR70	SMA6J64CA	1.5SMC33	3.0SMCJ5.0CA-GRGT3	P6SMB6.8CA-P
SMBJ24CA-23-TR30	SMA6J70A	1.5SMC33A	3.0SMCJ60CA-GT3	SMBJ5.0CA-MD
SMBJ24CA-23-RG70	SMA6J70CA	1.5SMC33C	3.0SMCJ6.0CA-SAGT3	SMBJ5.0CA-KF
SMBJ24CA-23-RG30	SMA6J75A	1.5SMC33CA	3.0SMCJ6.5A-GT3	SMBJ6.0CA-KF
SMBJ26A-23-TR70	SMA6J75CA	1.5SMC36	3.0SMCJ70A-SA-GT3	SMBJ8.5CA-KF
SMBJ28CA-23-TR70	SMA6J78A	1.5SMC36A	3.0SMCJ70CA-SA-GT3	SMBJ15CA-KF
SMBJ30CA-23-TR70	SMA6J78CA	1.5SMC36C	3.0SMCJ7.0CA-GT3	3.0SMCJ90CA-GR-GT3
SMBJ33CA-23-TR70	SMA6J85A	1.5SMC36CA	3.0SMCJ7.0CA-SAGT3	SMDJ15CA-G
SMBJ36A-23-TR70	SMA6J85CA	1.5SMC39	3.0SMCJ7.5A-GT3	3.0SMCJ18CAS-GRGT3
SMBJ36A-23-RG70	SMA6J90A	1.5SMC39A	3.0SMCJ75CA-GT3	3.0SMCJ18CAS-GRGT7
SMBJ36CA-23-TR70	SMA6J90CA	1.5SMC39C	3.0SMCJ78A-GT3	3.0SMCJ60CA
SMBJ36CA-23-TR30	SMA6J100A	1.5SMC39CA	3.0SMCJ8.5CA-GRGT3	3.0SMCJ70CA
SMBJ40CA-23-TR70	SMA6J110A	1.5SMC43	3.0SMCJ10A-SA-GT3R	3.0SMCJ5.0CASGRGT3
SMBJ45CA-23-TR70	SMA6J120A	1.5SMC43A	3.0SMCJ120CA-GT3R	3.0SMCJ5.0CASGRGT7
SMBJ48CA-23-TR70	SMA6J130A	1.5SMC43C	3.0SMCJ12A-GT3R	3.0SMCJ7CA-SA-GT3R
SMBJ48A-23-TR70	SMAJ14A-	1.5SMC43CA	3.0SMCJ12CA-GT3R	3.0SMCJ20CAS-GRGT3
SMBJ51A-23-TR70	SMAJ14AHF	1.5SMC47	3.0SMCJ13CA-SAGT3R	3.0SMCJ20CAS-GRGT7
SMBJ51CA-23-TR70	SMAJ24A-N	1.5SMC47A	3.0SMCJ15A-GT3R	1.5SMC150CA
SMBJ58CA-23-TR70	SMAJ30A-N	1.5SMC47C	3.0SMCJ15CA-GRGT3R	1.5SMC160
SMBJ70CA-23-TR70	SMAJ33CA-HW	1.5SMC47CA	3.0SMCJ15CA-GT3R	1.5SMC160A
SMBJ75CA-23-TR70	SMAJ60A-N	1.5SMC51	3.0SMCJ16A-GT3R	1.5SMC160C
SMBJ85CA-23-TR70	SMAJ60CA-N	1.5SMC51A	3.0SMCJ16CA-GRGT3R	1.5SMC160CA
SMBJ120A-23-TR70	SMAJ28A-37	1.5SMC51C	3.0SMCJ16CA-GT3R	1.5SMC170
P6SMB51A-23-RG70	P4SMA550CA-100	1.5SMC51CA	3.0SMCJ18CA-GRGT3R	1.5SMC170A
SMBJ33CA-80	SMAJ15A-54T7	1.5SMC56	3.0SMCJ20CA-GRGT3R	1.5SMC170C
SMBJ350A-LIT	SMAJ200CA-54T7	1.5SMC56A	3.0SMCJ20CA-GT3R	1.5SMC170CA
SMBJ33A-T7	SMAJ33CA-54T7	1.5SMC56C	3.0SMCJ22A-GT3R	1.5SMC180
SMBJ6.0A-T7	SMAJ36CA-54T7	1.5SMC56CA	3.0SMCJ24A-GT3R	1.5SMC180A
SMBJ7.0A-T7	SMAJ48CA-54T7	1.5SMC62	3.0SMCJ24A-SA-GT3R	SMAJ8.5CA-23-TR70
SMBJ16CA-JM	SMAJ5.0A-54T7	1.5SMC62A	3.0SMCJ24CA-GT3R	SMAJ9.0A-23-TR70
P6SMB440A-101	SMAJ5.0CA-54T7	1.5SMC62C	3.0SMCJ24CA-SAGT3R	SMAJ6.5CA-23-TR70
SMBJ70CA-T7	P4SMA20CA-54	1.5SMC62CA	3.0SMCJ28A-GT3R	P4SMAJ36A-7
P6SMB250A-TC1	SMAJ100CA-23-TR70	1.5SMC68	3.0SMCJ28CA-GRGT3R	SMAJ8.5A-34
P6SMB8V2C	SMAJ10CA-23-TR70	1.5SMC68A	3.0SMCJ30A-GT3R	SMAJ36CA-LC
P6SMB8V2CA	SMAJ12CA-23-TR70	1.5SMC68C	3.0SMCJ33A-GT3R	SMAJ15CA-N
HTVSB7.0CA-100	SMAJ13A-23-TR70	1.5SMC68CA	3.0SMCJ33CA-GT3R	SMAJ300A-S
SMBJ13A-C	SMAJ13CA-23-TR70	1.5SMC75	3.0SMCJ36A-GT3R	SMAJ350A-S
P6SMB440CA-L	SMAJ13CA-23-RG70	1.5SMC75A	3.0SMCJ36CA-GT3R	P4SMA350A-S
SMBJ220A-L	SMAJ14A-23-TR70	1.5SMC75C	3.0SMCJ40CA-GRGT3R	P4SMA400A-S
SMBJ24A-37	SMAJ150A-23-TR70	1.5SMC75CA	3.0SMCJ40CA-GT3R	P6SMB300A-SCH
SMBJ40CA-37	SMAJ15A-23-TR70	1.5SMC82	3.0SMCJ43A-GT3R	P6SMB400A-SCH
SMBJ58CA-37	SMAJ15CA-23-TR70	1.5SMC82A	3.0SMCJ43A-SA-GT3R	SMBJ440CA-23-RG70
SMBJ6.5A-37	SMAJ15CA-23-RG70	1.5SMC82C	3.0SMCJ43CA-SAGT3R	SMBJ8.5CA-N
SMBJ6.5CA-37	SMAJ17A-23-TR70	1.5SMC82CA	3.0SMCJ45A-GT3R	SMBJ12CA-N
SMBJ18A-37	SMAJ18A-23-TR70	1.5SMC91	3.0SMCJ48A-GT3R	SMBJ15A-N

SMBJ300A-37	SMAJ18A-23-RG70	1.5SMC91A	3.0SMCJ48A-SA-GT3R	SMBJ300A-S
SMBJ6.0CA-37	SMAJ18CA-23-TR70	1.5SMC91C	3.0SMCJ48CA-GRGT3R	SMBJ350A-S
SMBJ15A-37	SMAJ22A-23-TR70	1.5SMC91CA	3.0SMCJ48CA-SAGT3R	P6SMB350A-S
SMBJ400A-37	SMAJ28A-23-TR70	1.5SMC100	3.0SMCJ5.0A-GT3R	P6SMB400A-S
SMBJ70A-37	SMAJ28A-23-RG70	1.5SMC100A	3.0SMCJ51A-GT3R	P6SMB440A-S
P6SMB250A-102	SMAJ28CA-23-TR70	1.5SMC100C	3.0SMCJ60CA-GT3R	
SMBJ5.0A-012	SMAJ30A-23-TR70	1.5SMC100CA	3.0SMCJ6.5A-GT3R	
P6SMB27CAAUTO	SMAJ30A-23-RG70	1.5SMC110	3.0SMCJ70A-SA-GT3R	
P6SMB36CAAUTO	SMAJ33A-23-TR70	1.5SMC110A	3.0SMCJ70CA-SAGT3R	
P6SMB39CAAUTO	SMAJ33CA-23-TR30	1.5SMC110C	3.0SMCJ7.0CA-GT3R	
P6SMB300A-102	SMAJ36A-23-TR70	1.5SMC110CA	3.0SMCJ7.5A-GT3R	
P6SMB350A-102	SMAJ36CA-23-TR70	1.5SMC120	3.0SMCJ75CA-GT3R	
P6SMB400A-102	SMAJ40CA-23-TR70	1.5SMC120A	3.0SMCJ78A-GT3R	
P6SMB68A-100	SMAJ43A-23-TR70	1.5SMC120C	3.0SMCJ17CA-54T7	
P6SMBJ250C-004	SMAJ48CA-23-TR70	1.5SMC120CA	3.0SMCJ33CA-54T7	
P6SMBJ440-003	SMAJ5.0A-23-TR70	1.5SMC130	3.0SMCJ13CA-23-TR	
SMBJ17A-100	SMAJ5.0CA-23-TR70	1.5SMC130A	3.0SMCJ5.0CA-23-TR	
SMBJ33A-014	SMAJ6.0CA-23-TR70	1.5SMC130C	3.0SMCJ51A-23-RG71	
SMBJ33CA-0028	SMAJ7.0A-23-TR70	1.5SMC130CA	3.0SMCJ8.5CA-23-TR	
SMBJ13A-015	SMAJ7.0CA-23-TR70	1.5SMC150	3.0SMCJ11CA-GR-GT3	
P6SMBJ30-001-BR	SMAJ7.0CA-23-RG70	1.5SMC150A	3.0SMCJ13CA-GR-GT3	
P6SMB220A-SCH	SMAJ8.0CA-23-TR70	1.5SMC150C	3.0SMCJ26CA-GR-GT3	