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mSiC™ Diode TO-247

Silicon Carbide Schottky Barrier Diode (SiC SBD) TO-247 Package Outline Update

CLARIFICATIONS/CORRECTIONS TO THE DATASHEET

In the device datasheets listed below, the following clarifications and corrections should be noted. Please check the Microchip website for any existing issues.

TABLE 1: AFFECTED PART NUMBERS AND DOCUMENTS

Part Number	Part Description	Datasheet Number	Datsheet Revision
MSC010SDA070B	SiC SBD 700 V 10 A TO-247	DS00003878	A
MSC010SDA120B	SiC SBD 1200 V 10 A TO-247	053-4081	B
MSC010SDA170B	SiC SBD 1700 V 10 A TO-247	053-4112	A
MSC015SDA120B	SiC SBD 1200 V 15 A TO-247	053-4085	A
MSC020SDA120B	SiC SBD 1200 V 20 A TO-247	053-4078	C
MSC030SDA070B	SiC SBD 700 V 30 A TO-247	053-4093	A
MSC030SDA120B	SiC SBD 1200 V 30 A TO-247	DS00005049	A
MSC030SDA170B	SiC SBD 1700 V 30 A TO-247	053-4098	A
MSC030SDA330B	SiC SBD 3300 V 30 A TO-247	DS00004271	A
MSC050SDA070B	SiC SBD 700 V 50 A TO-247	053-4080	A
MSC050SDA120B	SiC SBD 1200 V 50 A TO-247	053-4079	A
MSC050SDA170B	SiC SBD 1700 V 50 A TO-247	053-4095	A

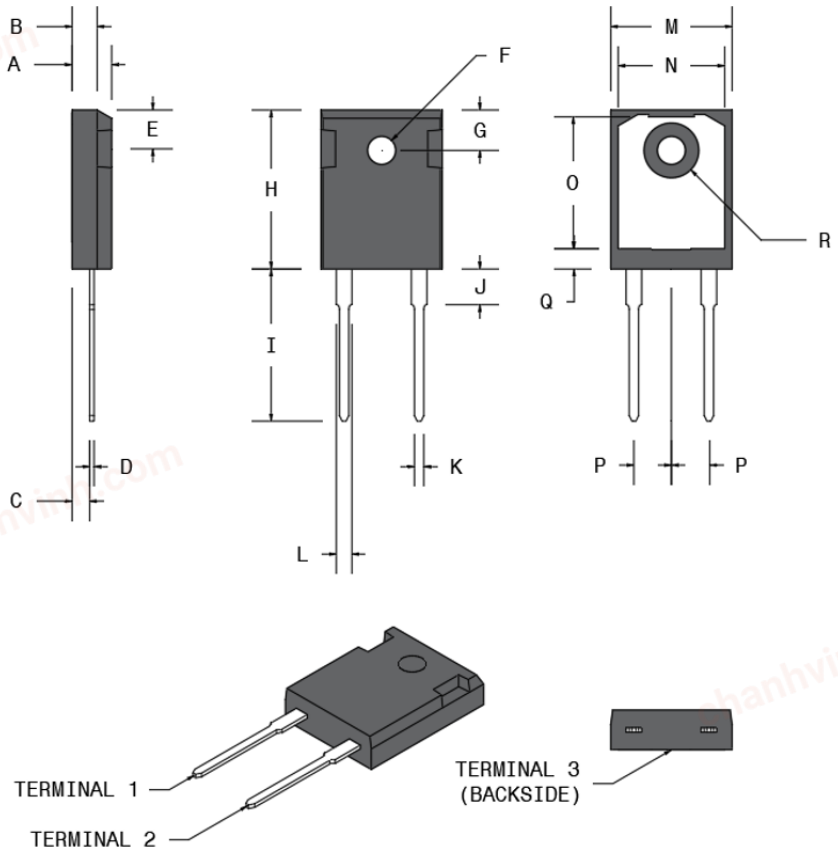
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Summary of Change

The TO-247 Package Outline is incorrectly labeled or is in an older format. In the dimensional diagram below, the drawing has been updated and the labels have been corrected.



Symbol	Min	Max	Min	Max
	[mm]		[INCH]	
A	4.69	5.31	0.185	0.209
B	1.49	2.49	0.059	0.098
C	2.21	2.59	0.087	0.102
D	0.40	0.79	0.016	0.031
E	5.38	6.20	0.212	0.244
F	3.50	3.81	0.138	0.150
G	6.15 BSC		0.242 BSC	
H	20.80	21.46	0.819	0.845
I	19.81	20.32	0.780	0.800
J	4.00	4.50	0.157	0.177
K	1.01	1.40	0.040	0.055
L	1.65	2.13	0.065	0.084
M	15.49	16.26	0.610	0.640
N	13.50	14.50	0.531	0.571

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Symbol	Min	Max	Min	Max
	[mm]		[INCH]	
O	16.50	17.50	0.650	0.689
P	5.45 BSC		0.215 BSC	
Q	2.00	2.75	0.079	0.108
R	7.10	7.50	0.280	0.295
TERMINAL 1	CATHODE			
TERMINAL 2	ANODE			
TERMINAL 3	CATHODE			

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APPENDIX A: DOCUMENT REVISION HISTORY

Rev A Document (September 2023)

Initial release of this document.

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