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Innovative Service Around the Globe YAGEO

DATA SHEET

GAS DISCHARGE TUBES
TELEPHONE INTERFACE

2RK3600L-5

RoHS compliant & free



Product specification– May 19, 2022 V.1

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Gas Discharge Tube (GDT) Data Sheet

Features

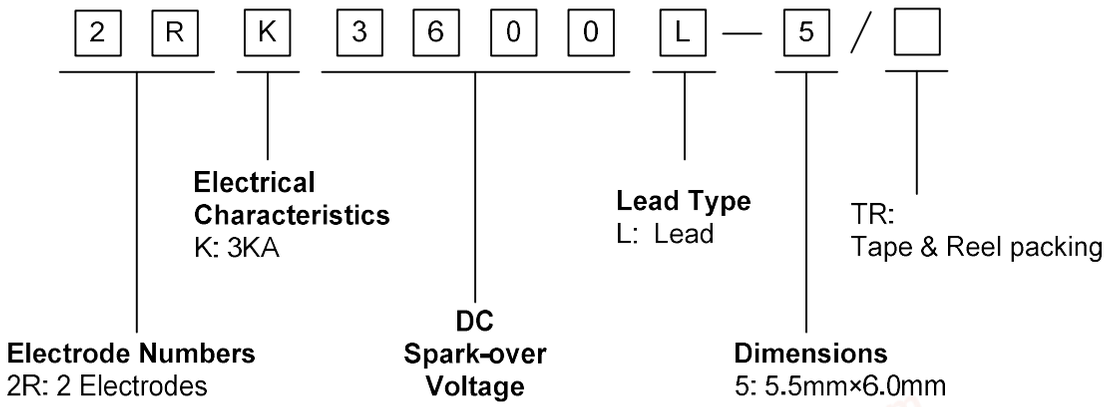


- Provide ultra-fast response to surge voltage from slow-rising surge of 100V/s to rapid-rising surge of 1KV/μs.
- Stable breakdown voltage.
- High insulation resistance.
- Low capacitance (≤1.5pF)
- High holdover voltage
- Large absorbing transient current capability.
- Micro-Gap Design
- Size: 5.5mm*6.0mm
- Storage and operational temperature: -40℃ ~ +85℃
- Meets MSL level 1, per J-STD-020
- Safety certification: UL

Applications

- Standard power supplies requisite by US UL1449.
- Highly reliable power supplies.
- Three or two phases industrial or civic machinery equipment power.
- Power supplies for IC or electronic circuits.

Part Number Code



Ordering Code	Lead type	Packing
2RK3600L-5/TR	Lead	Tape & Reel
2RK3600L-5/B	Lead	Box

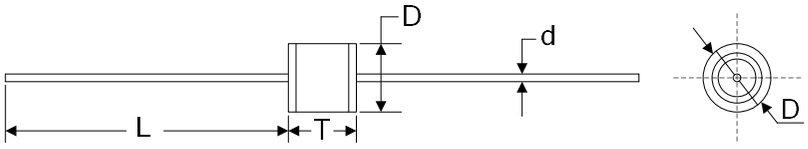
Marking

B	: BrightKing Logo
2RK3600-5	: Device Marking Code
XXXX	: Internal Control Code

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Dimensions

L Type

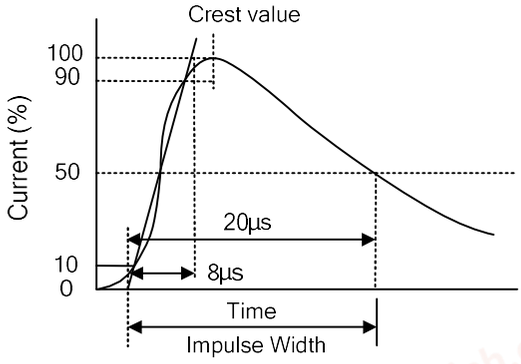


Symbol	Dimension (mm)	
	Spec.	Tolerance
D	5.5	+0.3, -0.5
T	6.0	+0.3, -0.5
d	0.8	±0.1
L	30.0	Max.

Electrical Characteristics

DC Spark-over Voltage	Maximum Impulse Spark-over Voltage	Nominal Impulse Discharge Current	Impulse Life	Minimum Insulation Resistance		Maximum Capacitance	AC Withstanding Voltage	Device Marking Code
100V/s	1000V/μs	8/20μs 1time	8/20μs 100A	Test Voltage	(GΩ)	1MHz		
(V)	(V)	(KA)	(times)	DC(V)		(pF)		
3600±20%	5000	3.0	300	1000	1.0	1.5	AC1800, 1s	2RK3600-5

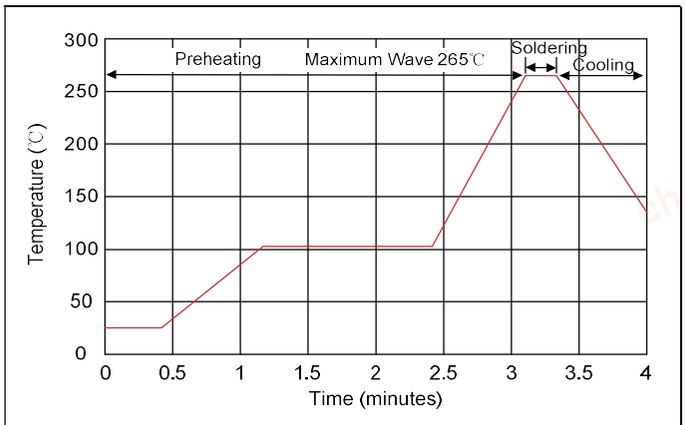
Electrical Ratings

Items	Test Condition/Description	Requirement
DC Spark-over Voltage	The voltage is measured with voltage ramp dv/dt=100V/s.	To meet the specified value
Maximum Impulse Spark-over Voltage	The maximum impulse spark-over voltage is measured with voltage ramp dv/dt=1000V/μs.	
Impulse Discharge Current	Maximum 8/20μs surge current that can be applied between two electrodes, 5 positive and 5 negative surges, with 3 minutes interval time. 	
Insulation Resistance	The resistance of gas tube shall be measured between two electrodes.	
Capacitance	The capacitance of gas tube shall be measured between two electrodes. Test frequency: 1MHz	

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Recommended Soldering Conditions

Wave Soldering

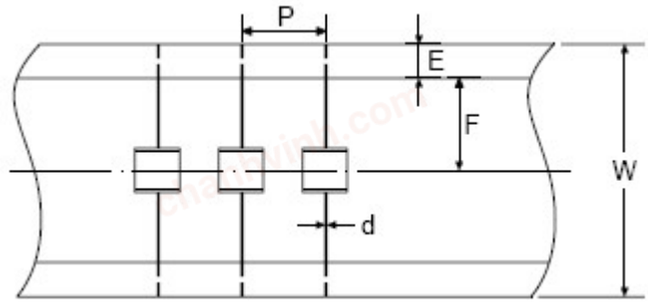


Item	Conditions
Peak Temperature	265℃
Dipping Time	10 seconds
Soldering	1 time

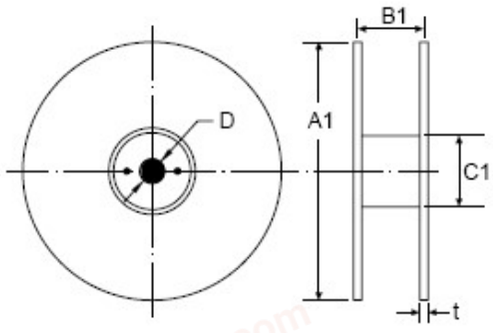
Packaging

Axial Packing (Tape & Reel)

Tape



Reel



Symbol	Dimension (mm)	
	Spec.	Tolerance
P	10.0	±0.1
W	65.0	±0.3
E	6.0	±0.5
F	26.5	±0.1
d	0.8	±0.05
A1	330.0	±1.0
B1	70.0	±1.0
C1	82.0	±1.0
D	25.0	±0.2
t	3.0	±0.2
Quantity: 1000pcs		

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