

Gas Discharge Tube (GDT) Data Sheet

Features

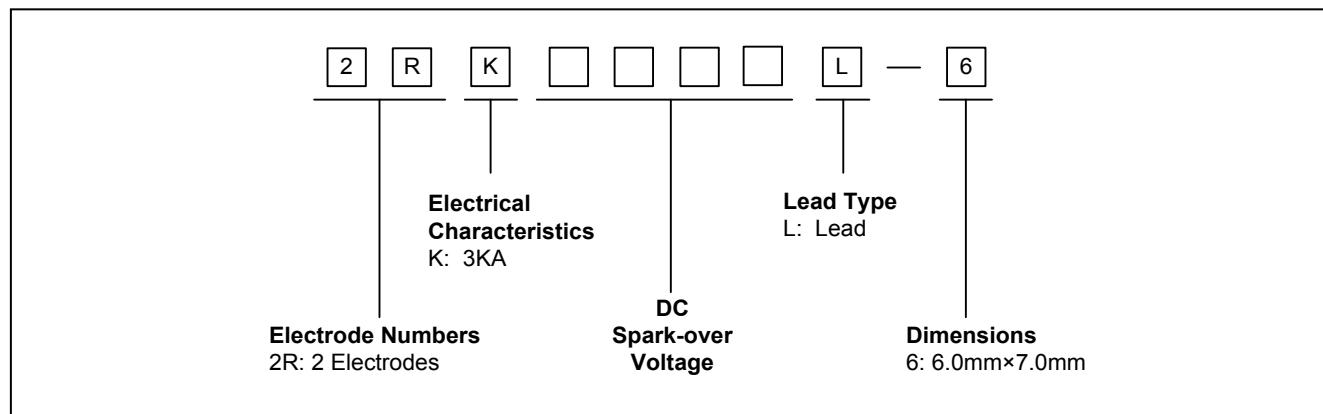
- Provide ultra-fast response to surge voltage from slow-rising surge of 100V/s to rapid rising surge 1KV/μs
- Stable breakdown voltage.
- High insulation resistance.
- Low capacitance (≤ 0.5pF)
- High holdover voltage
- Large absorbing transient current capability.
- Micro -Gap Design
- Size: 6.0mm*7.0mm
- Storage and operating temperature: -40℃~+85℃
- Meets MSL level 1, per J -STD -020
- Safety certification: E327997



Applications

- Repeaters, Modems.
- Telephone Interface, Line cards.
- Data communication equipment.
- Line test equipment

Part Number Code



Ordering Code for different package in 2RKxxxxL-6 series

Box package: Add suffix “/B” at the end of the part number, such as 2RK1000L-6/B

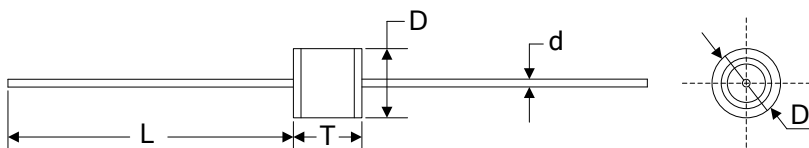
Reel package: Add suffix “/TR” at the end of the part number, such as 2RK1000L-6/TR

Marking

B : Logo 2RK3600-6 : Device Marking Code XXXX : Internal Control Code
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Dimensions

L Type	Symbol	Dimension (mm)	
		Spec.	Tolerance
	D	6.0	+0.3, -0.5
	T	7.0	+0.3, -0.5
	d	0.8	±0.1
	L	30.0	Max.

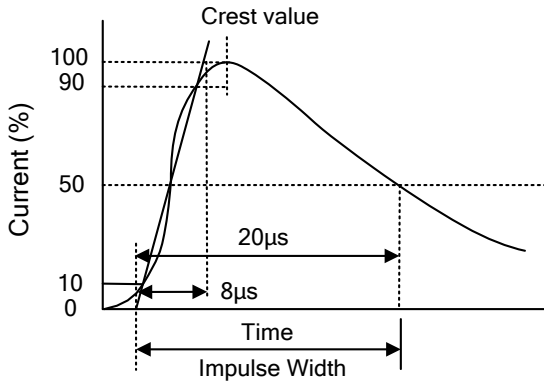


Electrical Characteristics

Part Number	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 10times	8/20μs 100A	Test Voltage	(GΩ)	1MHz		
	(V)	(V)	(KA)	(times)	DC(V)		(pF)		
2RK1000L-6	1000±20%	2000	3.0	300	500	1.0	0.5	-	2RK1000-6
2RK1200L-6	1200±20%	2300	3.0	300	500	1.0	0.5	-	2RK1200-6
2RK1400L-6	1400±20%	2500	3.0	300	500	1.0	0.5	-	2RK1400-6
2RK1500L-6	1500±20%	2600	3.0	300	500	1.0	0.5	-	2RK1500-6
2RK1600L-6	1600±20%	2700	3.0	300	500	1.0	0.5	-	2RK1600-6
2RK2000L-6	2000±20%	3000	3.0	300	500	1.0	0.5	-	2RK2000-6
2RK2500L-6	2500±20%	3600	3.0	300	1000	1.0	0.5	AC1250V,1min	2RK2500-6
2RK2700L-6	2700±20%	3800	3.0	300	1000	1.0	0.5	AC1250V,1min	2RK2700-6
2RK3000L-6	3000±20%	4200	3.0	300	1000	1.0	0.5	AC1500V,1min	2RK3000-6
2RK3500L-6	3500±20%	4600	3.0	300	1000	1.0	0.5	AC1800V,1min	2RK3500-6
2RK3600L-6	3600±20%	4700	3.0	300	1000	1.0	0.5	AC1800V,1min	2RK3600-6

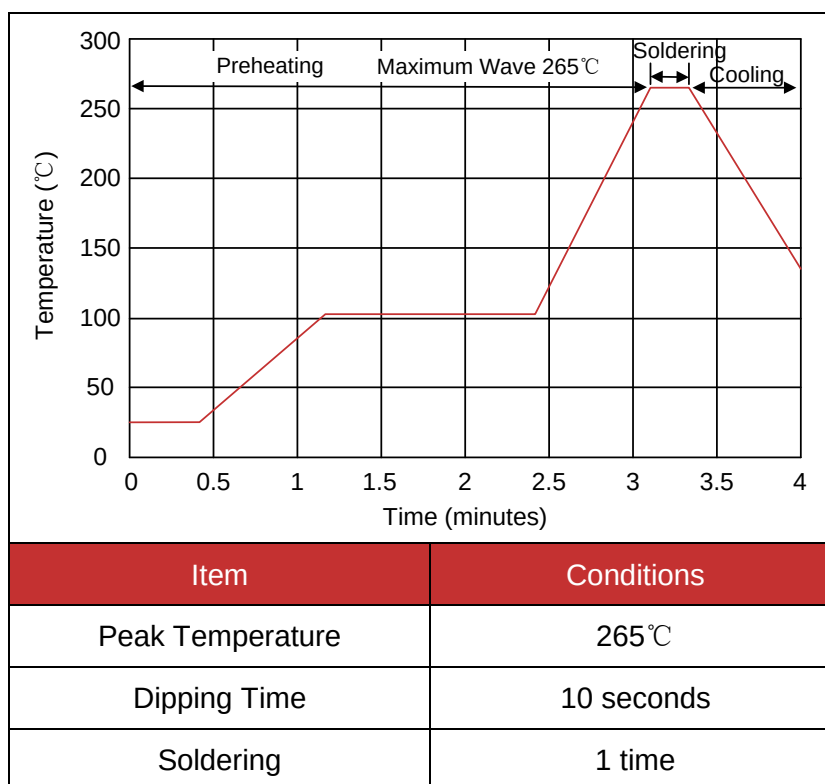
Electrical Ratings

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 $dv/dt=1000V/\mu s$.	

Impulse Discharge Current	Maximum 8/20μs surge current that can be applied between the two electrodes, 5 positive and 5 negative surges, with 3 minutes interval time. 	
Insulation Resistance	The resistance of gas tube shall be measured between the two electrodes.	
Capacitance	The capacitance of gas tube shall be measured between the two electrodes and the test frequency is 1MHz.	

Recommended Soldering Conditions

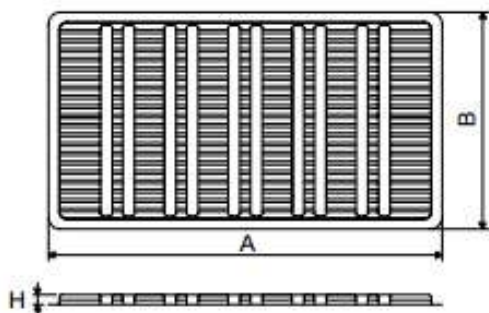
Wave Soldering



Packaging

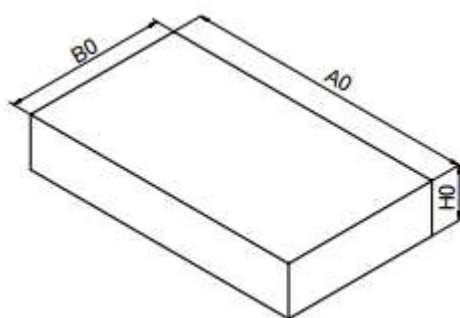
Axial Packing (Bulk)

Skin packing



Symbol	Dimension (mm)	
	Spec.	Tolerance
A	265.0	±5.0
B	146.0	±5.0
H	8.5	±0.5
Quantity: 100pcs		

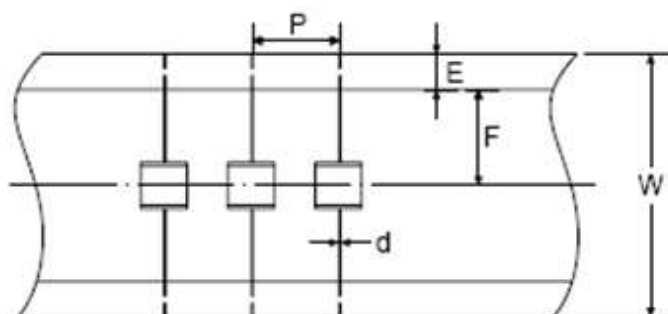
Inner box



A0	270.0	±2.0
B0	150.0	±2.0
H0	50.0	±2.0
Quantity: 500pcs		

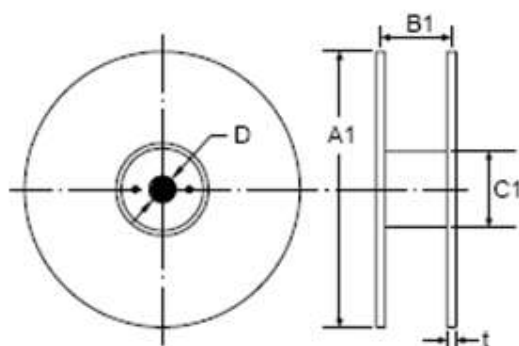
Axial Packing (Tape & Reel)

Tape



Symbol	Dimension (mm)	
	Spec.	Tolerance
P	10.0	±0.5
W	65.0	±1.0
E	6.0	±0.5
F	26.5	±0.5
d	0.8	±0.1

Reel



A1	330.0	±2.0
B1	70.0	±2.0
C1	82.0	±2.0
D	25.0	±0.5
t	2.0	±0.2
Quantity: 500pcs		