



Gas Discharge Tube (GDT) Data Sheet

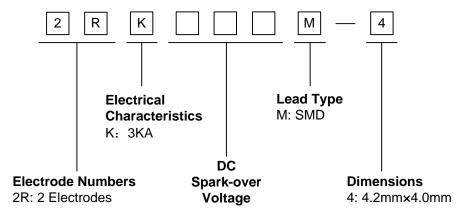
Features

- 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 (≤1pF)
- High holdover voltage
- Large absorbing transient current capability
- Micro-Gap Design
- Size: 4.2mm*4.0mm
- Storage and operating temperature: -40°C ~ +85°C
- Meets MSL level 1, per J-STD-020
- Safety certification: E244458 & E327997

Applications

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

Part Number Code



Marking

090 : Device Marking Code

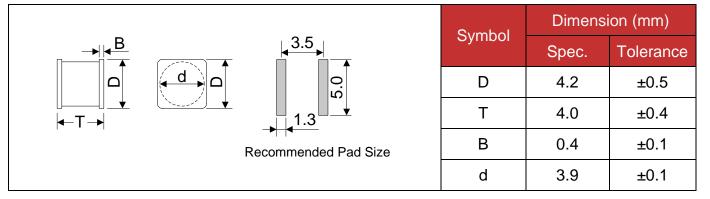
YXXX: Date Code







Dimensions



Electrical Characteristics

Part Number	DC Spark-over Voltage	Maximum Impulse Spark-over Voltage	Nominal Impulse Discharge Current	Alternating Discharge Current	Impulse Life	Minimum Insulation Resistance		Maximum Capacitance	Device Marking
	100V/s	1000V/µs	8/20µs 10times	50Hz,1sec	10/1000μs 100A	Test Voltage	(GΩ)	1MHz	Code
	(V)	(V)	(KA)	(A)	(times)	DC(V)	(012)	(pF)	
2RK075M-4	75±20%	800	3	3	300	25	1	1.0	075
2RK090M-4	90±20%	800	3	3	300	50	1	1.0	090
2RK145M-4	145±20%	800	3	3	300	100	1	1.0	145
2RK230M-4	230±20%	700	3	3	300	100	1	1.0	230
2RK250M-4	250±20%	700	3	3	300	100	1	1.0	250
2RK300M-4	300±20%	800	3	3	300	100	1	1.0	300
2RK350M-4	350±20%	850	3	3	300	100	1	1.0	350
2RK400M-4	400±20%	900	3	3	300	100	1	1.0	400
2RK470M-4	470±20%	1000	3	3	300	250	1	1.0	470
2RK600M-4	600±20%	1200	3	3	300	250	1	1.0	600
2RK800M-4	800±20%	1400	3	3	300	250	1	1.0	800
2RK1000M-4	1000±20%	1600	3	3	300	500	1	1.0	1000
2RK1200M-4	1200±20%	1900	3	3	300	500	1	1.0	1200





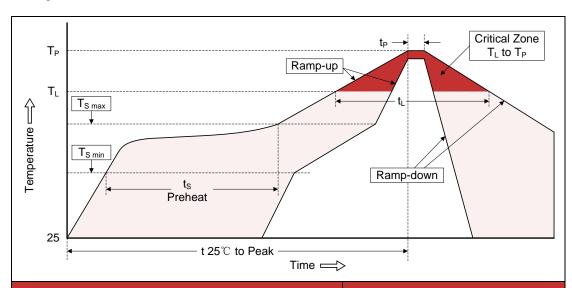
Electrical Ratings

Items	Test Condition/Description	Requirement
DC Spark-over Voltage	The voltage is measured with voltage ramp dv/dt=100V/s.	
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, without causing the DC spark-over voltage to change more than 25% from its initial value. Crest value 100 90 10 8µs Time Impulse Width	To meet the specified value
Alternating Discharge Current	Rated RMS value of AC current at 50Hz, 1 sec. for 10 times with interval time 3 min. DC spark-over voltage shall not change more than $\pm 25\%$ from its initial value. IR $> 10^8$ ohms (-20%, $\pm 30\%$ for 70~90V).	
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	



Recommended Soldering Conditions

Reflow Soldering

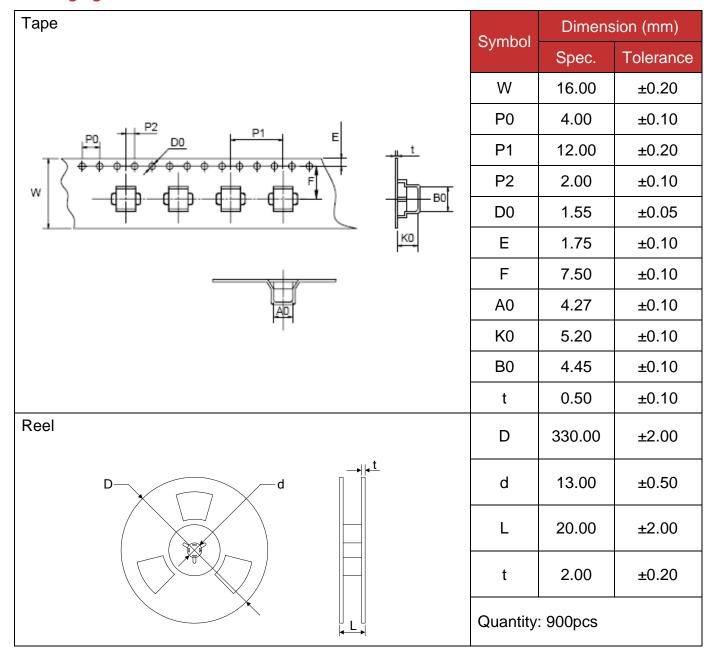


Profile Feature	Pb-Free Assembly			
Average ramp-up rate (T _L to T _P)	3°C/second max.			
Preheat				
-Temperature Min (T _{S min})	150℃			
-Temperature Max (T _{S max})	200 ℃			
-Time (min to max) (ts)	60-180 seconds			
T _{S max} to T _L				
-Ramp-up Rate	3°C/second max.			
Time maintained above:				
-Temperature (T _L)	217℃			
-Time (t _L)	60-150 seconds			
Peak Temperature (T _P)	260℃			
Time within 5℃ of actual Peak Temperature (t _P)	20-40 seconds			
Ramp-down Rate	6℃/second max.			
Time 25°C to Peak Temperature	8 minutes max.			





Packaging



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