



Gas Discharge Tube (GDT) Data Sheet

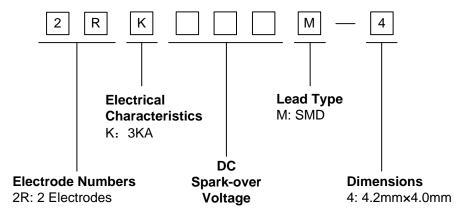
Features

- 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

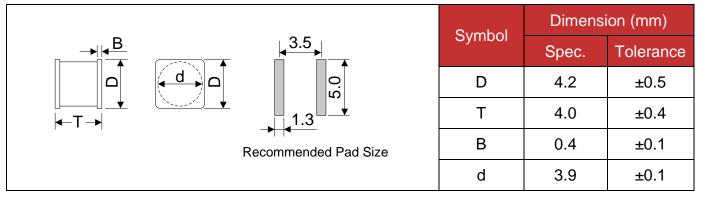
YXXX: Date Code







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





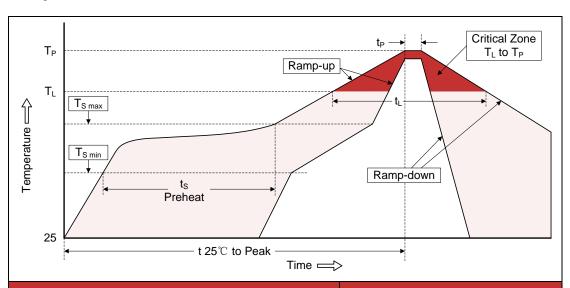
Electrical Ratings

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 20μs 10 10 10 10 10 10 10 10 10 10 10 10 10	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 ±25% from its initial value. IR > 10 ⁸ ohms (-20%, +30% for 70~90V).		
Insulation Resistance	The resistance of gas tube shall be measured between two electrodes.		
Capacitance			



Recommended Soldering Conditions

Reflow Soldering

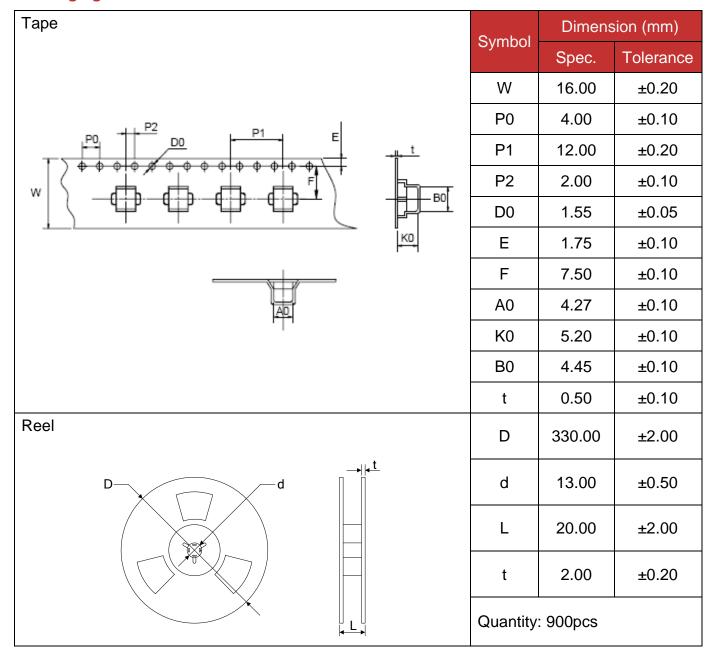


Profile Feature	Pb-Free Assembly			
Average ramp-up rate (T _L to T _P)	3°C/second max.			
Preheat				
-Temperature Min (T _{S min})	150℃			
-Temperature Max (T _{S max})	200 °C			
-Time (min to max) (ts)	60-180 seconds			
T _{S max} to T _L				
-Ramp-up Rate	3°C/second max.			
Time maintained above:				
-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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