Gas Discharge Tube (GDT) Data Sheet

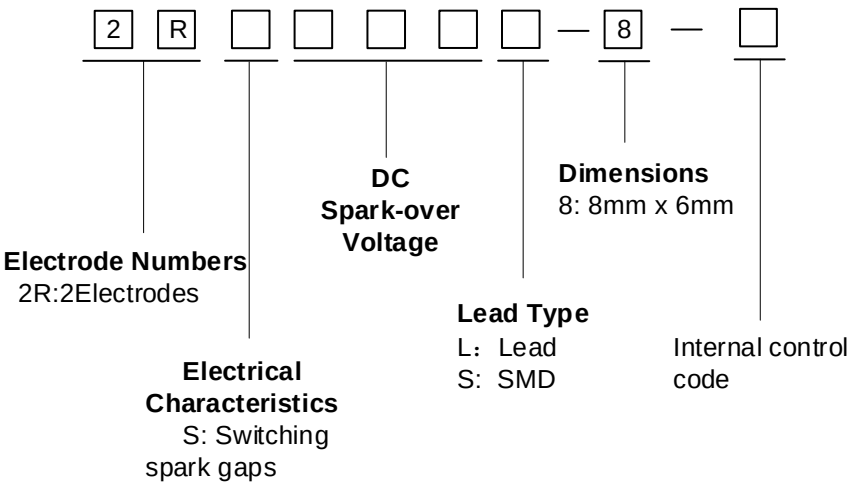
Features

- Provide ultra-fast response to surge voltage from slow-rising surge of 100V/s to rapid-rising surge of 1KV/μs
- Low capacitance（≤1.5pF）
- High holdover voltage
- Stable breakdown voltage
- Large absorbing transient current capability
- Surface mounted gas arrester
- Micro-Gap Design
- Operating and Storage Temperature ： -40℃ ~ +125℃
- Meets MSL Level 1，per J-STD-020

Applications

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

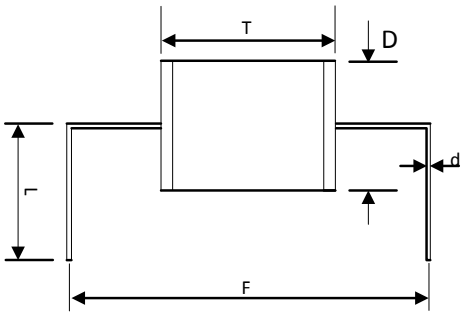
Part Number Code



Electrical Characteristics

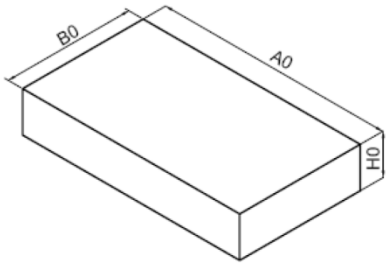
Part Number	DC Spark-over Voltage	Switching Operations @25° C	Test Voltage	Minimum Insulation Resistance		Maximum Capacitance	Peak dischargecurrent	Device Marking Code
	100V/S	Times	(v)	Test Voltage	（GΩ）	(1MHz 1V)	（A）	
	(v)			DC(V)		(pF)		
2RS800L-8	800±20%	10^5	1000	100	1	1.5	400	KG8 800

Dimensions



Symbol	Dimension (mm)
D	8.00±0.50
T	6.00±0.50
d	0.80±0.10
L	8.00±1.00
F	10.00±1.00

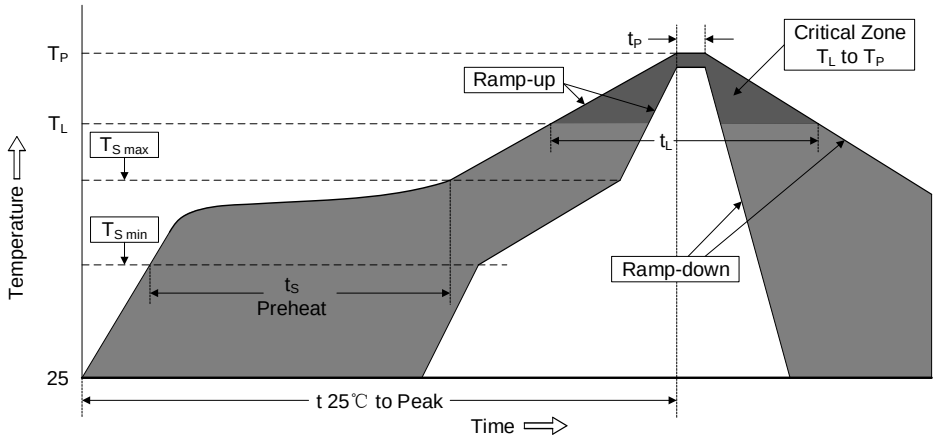
Packaging



Symbol	Dimension (mm)
A0	270 ± 2.0
B0	150 ± 2.0
H0	50 ± 2.0
Quantity:1000pcs	

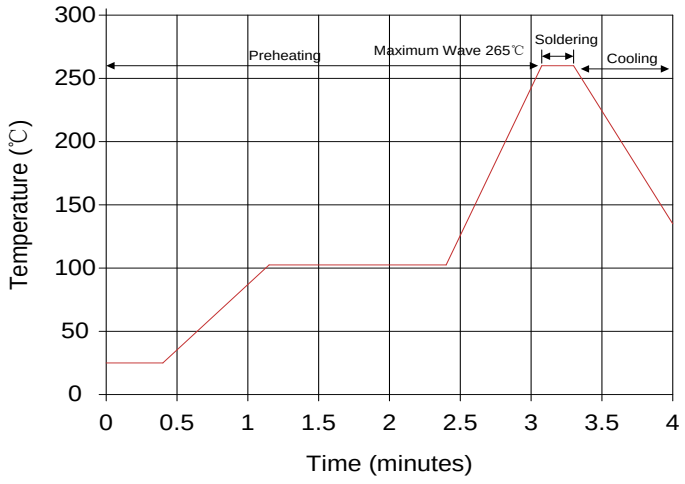
Soldering Recommendation

Reflow Soldering



Profile Feature	Pb-Free Assembly
Average ramp-up rate ($T_L$to T_P)	3℃/second max.
Preheat -Temperature Min ($T_{S\,min}$) -Temperature Max ($T_{S\,max}$) -Time (min to max)(t_S)	 150℃ 200℃ 60-180 seconds
$T_{S\,max}$to T_L -Ramp-up Rate	 3℃/second max.
Time maintained above: -Temperature (T_L) -Time (t_L)	 217℃ 60-150 seconds
Peak Temperature (T_P)	260℃
Time within 5℃ of actual PeakTemperature (t_P)	20-40 seconds
Ramp-down Rate	6℃/second max.
Time 25℃ to Peak Temperature	8 minutes max.

Wave Soldering



Item	Conditions
Peak Temperature	265℃
Dipping Time	10 seconds(max.)
Soldering	1 time