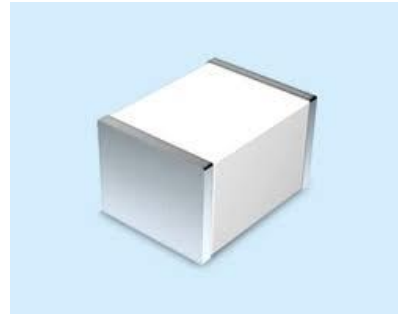


Gas Discharge Tube - PG23S-M02 Series

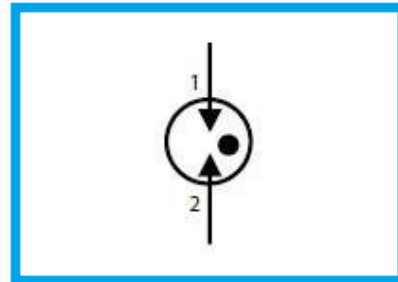
Features

- DC Spark-over voltage: 70~600V
- Low Capacitance
- Micro-Gap Design
- Stable breakdown voltage
- RoHS & HF compliant
- High holdover voltage
- High insulation resistance
- Large absorbing transient current capability.



Applications

- Communication equipment
- Test equipment
- Data lines
- CATV equipment
- Power Supplies
- Telecom SLIC protection
- Telecommunications

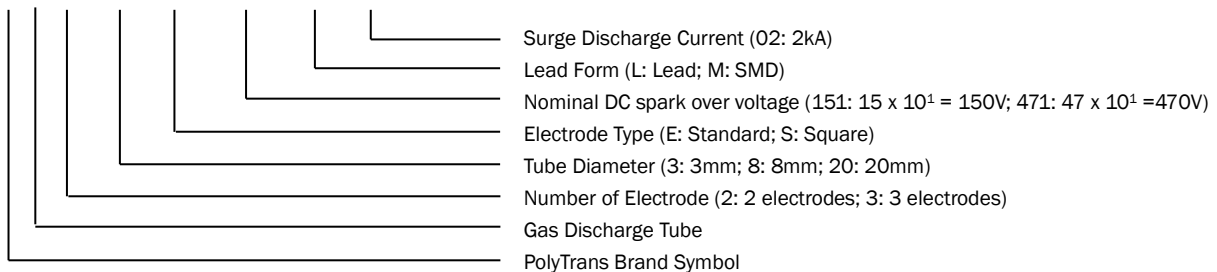


General Characteristics Definition

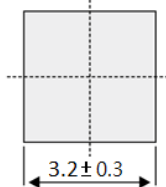
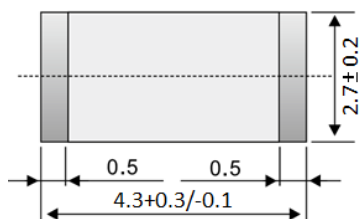
- Operating temperature: -50 ~ 125°C
- Storage temperature: -50 ~ 125°C

Part Number Code

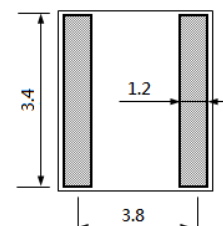
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Physical Dimensions



Solder pad layout



Note:

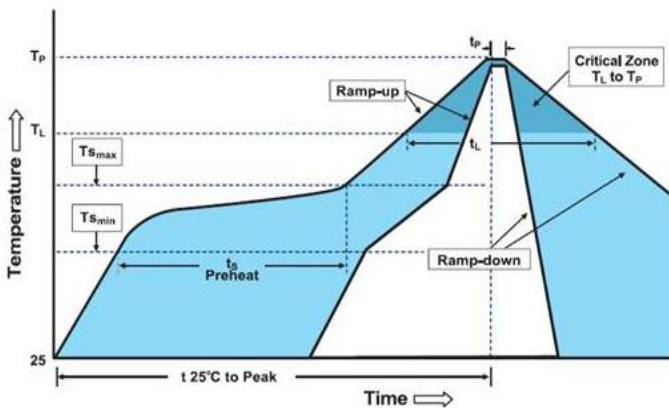
1. All dimensions are in millimeters.
2. No marking on the device.

Gas Discharge Tube - PG23S-M02 Series

Electrical Characteristics

Part Number	DC Spark-over Voltage @ 100V/S	Impulse Spark-over Voltage @ 1kV/ μ S	Impulse Discharge Current	Impulse Life Test	Minimum Insulation Resistance Test @ 100 Vdc	Maximum Capacitance @ 1.0 MHz	UL Certification
	(V)	(V)	8/20 μ s 10 Hits (kA)	8/20 μ s 300 Hits (A)	(G Ω)	(pF)	
	PG23S070M02	70 \pm 30%	\leq 600	2	100	1	
PG23S075M02	75 \pm 30%	\leq 600	2	100	1	0.5	Pending
PG23S091M02	90 \pm 30%	\leq 700	2	100	1	0.5	Pending
PG23S121M02	120 \pm 30%	\leq 700	2	100	1	0.5	Pending
PG23S151M02	150 \pm 30%	\leq 750	2	100	1	0.5	Pending
PG23S201M02	200 \pm 30%	\leq 750	2	100	1	0.5	Pending
PG23S231M02	230 \pm 30%	\leq 750	2	100	1	0.5	Pending
PG23S301M02	300 \pm 30%	\leq 800	2	100	1	0.5	Pending
PG23S351M02	350 \pm 30%	\leq 900	2	100	1	0.5	Pending
PG23S401M02	400 \pm 30%	\leq 950	2	100	1	0.5	Pending
PG23S421M02	420 \pm 30%	\leq 950	2	100	1	0.5	Pending
PG23S471M02	470 \pm 30%	\leq 1000	2	100	1	0.5	Pending
PG23S501M02	500 \pm 30%	\leq 1100	2	100	1	0.5	Pending
PG23S601M02	600 \pm 30%	\leq 1200	2	100	1	0.5	Pending

Lead Free Reflow Soldering Recommendations



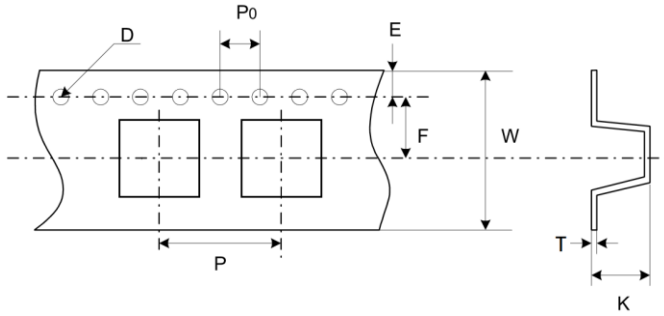
Profile Feature	Pb-Free Assembly
Average Ramp-Up Rate (T _{smax} to T _P)	3°C/second max.
Preheat	
-Temperature Min (T _{smin})	150°C
-Temperature Max (T _{smax})	200°C
-Time (T _{smin} to T _{smax})	60-180 seconds
Time maintained above:	
-Temperature (T _L)	217°C
-Time (t _L)	60-150 seconds
Peak Temperature (T _P)	260°C
Time within 5°C of actual Peak Temperature (t _P)	20-40 seconds
Ramp-Down Rate	6 °C /second max.
Time 25°C to Peak Temperature	8 minutes max.
Storage Condition	0°C ~35°C, \leq 70%RH

Note: If the wave soldering temperatures exceed the recommended profile, devices may not meet the performance requirements.

Gas Discharge Tube - PG23S-M02 Series

Packaging Information

Part Number	Quantity	
	EA/Roll	EA/Box
PG23S-M02 Series	2500	7500



Dimension	Millimeters
P	8.0±0.1
P0	4.0±0.1
D	1.55±0.05
E	1.75±0.1
F	5.45±0.1
W	12.0±0.3
T	0.4±0.05
K	3.2±0.1