

Gas Discharge Tube – PG38E-L Series

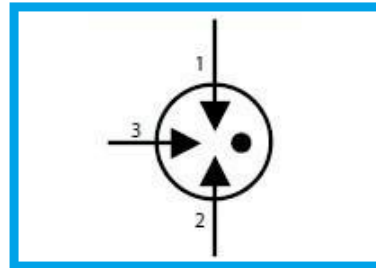
Features

- DC Spark-over voltage: 75~600V
- 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

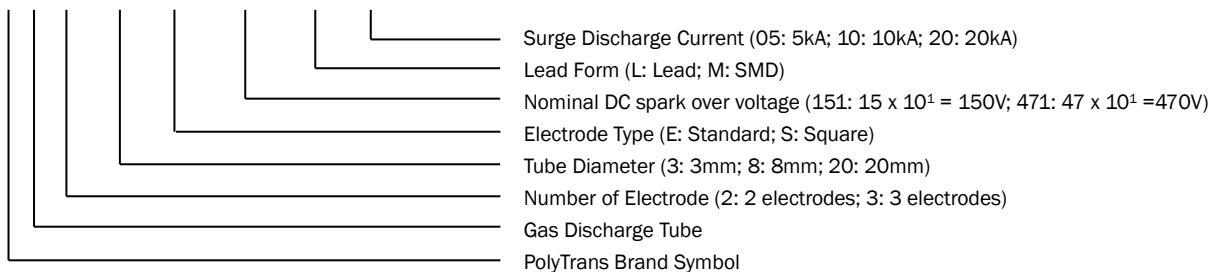


General Characteristics Definition

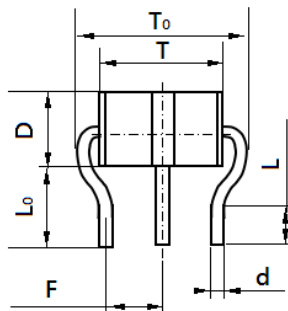
- Operating temperature: -50 ~ 125°C
- Storage temperature: -50 ~ 125°C

Part Number Code

P G □ □ □ □ □ □ □ □



Physical Dimensions



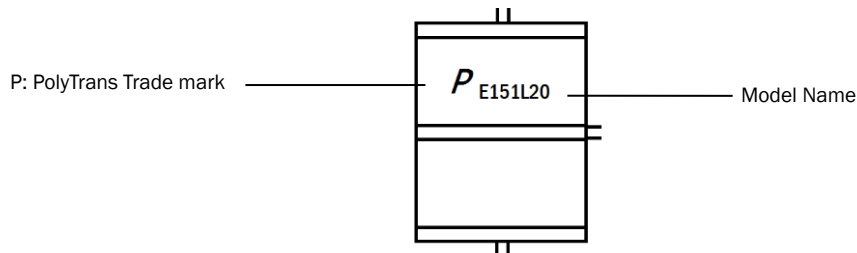
Symbol	Dimension (mm)
D	8.0±0.2
T	10.0±0.3
T ₀	13.4+0.0/-2.0
L	4.5+1.5/-0.0
L ₀	7.0±0.5
d	1.0±0.1
F	4.4±0.3

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Electrical Characteristics

Part Number	DC Spark-over Voltage @ 100V/S	Impulse Spark-over Voltage @ 1kV/ μ S	Impulse Discharge Current	AC Discharge Current	Minimum Insulation Resistance	Maximum Capacitance @ 1.0 MHz	UL Certificate (E474915)
	(V)		8/20 μ s 10 Hits	1s/5 Times			
	(V)		(kA)	(A)			
PG38E075L20	75 \pm 20%	\leq 600	20	20	10	1.0	✓
PG38E091L20	90 \pm 20%	\leq 600	20	20	10	1.0	✓
PG38E151L20	150 \pm 20%	\leq 600	20	20	10	1.0	✓
PG38E201L20	200 \pm 20%	\leq 700	20	20	10	1.0	✓
PG38E231L20	230 \pm 20%	\leq 700	20	20	10	1.0	✓
PG38E301L20	300 \pm 20%	\leq 900	20	20	10	1.0	✓
PG38E351L20	350 \pm 20%	\leq 1000	20	20	10	1.0	✓
PG38E401L20	400 \pm 20%	\leq 1000	20	20	10	1.0	✓
PG38E471L20	470 \pm 20%	\leq 1200	20	20	10	1.0	✓
PG38E601L20	600 \pm 20%	\leq 1400	20	20	10	1.0	✓

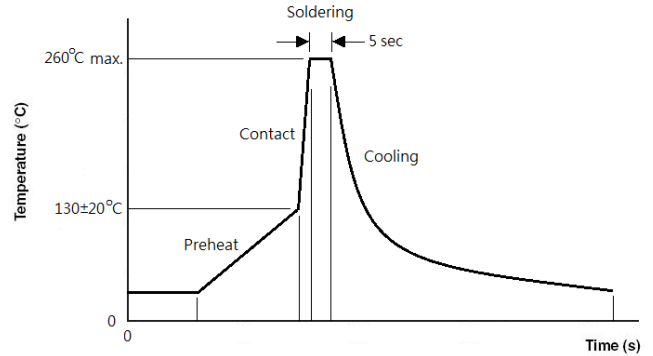
Marking Definitions



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Lead Free Wave Soldering Recommendations

Preheat	
- Temperature Min (T _{min})	110°C
- Temperature Max (T _{max})	150°C
- Time (T _{min} to T _{max})	30-90 seconds
- Average Ramp-Up Rate	1~3°C/second
Peak Temperature	260°C
Max Time at Peak Temperature	5 seconds
Ramp-Down Rate	5 °C /second max.



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

Packaging Information

Part Number	Quantity	
	EA/Bulk	EA/Carton
PG38E-L Series	100	5000