

Gas Discharge Tube

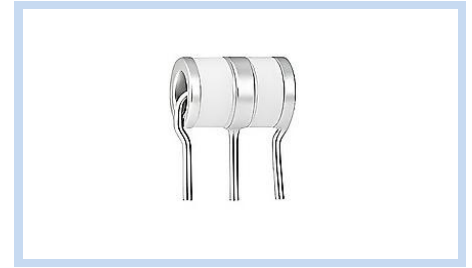
8.0x10.0mm 3 Poles Bent Leded

MGT8-3TY Series

MERITEK

FEATURE

- Ultra-Fast Surge Response
- High Surge Current Capability
- High Holder Voltage, High Insulation Resistance
- Low capacitance ($\leq 2\text{pF}$), Micro-Gap Design
- Applications: Repeaters, Modems, Telephone Interface, Line Cards, Data Communication Equipment, Line Test Equipment
- UL Safety Approved Certification No: E223045

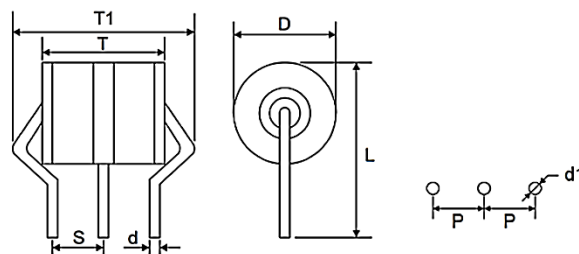


ELECTRICAL CHARACTERISTICS

Part Number	DC Spark-over Voltage	Impulse Spark-over Voltage	Impulse Discharge Current	Alternating Discharge Current	Impulse Life	Minimum Insulation Resistance		Maximum Capacitance
	100V/s	1KV/ μs	8/20 μs , 10times	50Hz, 1sec	10/1K μs , 100A	V_T	IR	1MHz/1V
8.0x10.0mm	(V)	(V)	(KA)	(A)	(Times)	(V _{DC})	(G Ω)	(pF)
MGT8M075MCB3TY	75 $\pm 20\%$	700	10	10	300	25	1	2
MGT8M090MCB3TY	90 $\pm 20\%$	700	10	10	300	50	1	2
MGT8M150MCB3TY	150 $\pm 20\%$	700	10	10	300	100	1	2
MGT8M200MCB3TY	200 $\pm 20\%$	700	10	10	300	100	1	2
MGT8M230MCB3TY	230 $\pm 20\%$	700	10	10	300	100	1	2
MGT8M350MCB3TY	350 $\pm 20\%$	850	10	10	300	100	1	2
MGT8M400MCB3TY	400 $\pm 20\%$	850	10	10	300	100	1	2
MGT8M470MCB3TY	470 $\pm 20\%$	950	10	10	300	250	1	2
MGT8M600MCB3TY	600 $\pm 20\%$	1300	10	10	300	250	1	2
MGT8P075MCB3TY	75 $\pm 20\%$	700	20	20	300	25	1	2
MGT8P090MCB3TY	90 $\pm 20\%$	700	20	20	300	50	1	2
MGT8P150MCB3TY	150 $\pm 20\%$	700	20	20	300	100	1	2
MGT8P200MCB3TY	200 $\pm 20\%$	700	20	20	300	100	1	2
MGT8P230MCB3TY	230 $\pm 20\%$	700	20	20	300	100	1	2
MGT8P350MCB3TY	350 $\pm 20\%$	850	20	20	300	100	1	2
MGT8P400MCB3TY	400 $\pm 20\%$	850	20	20	300	100	1	2
MGT8P470MCB3TY	470 $\pm 20\%$	950	20	20	300	250	1	2
MGT8P600MCB3TY	600 $\pm 20\%$	1300	20	20	300	250	1	2

Note: Operating Temperature: -40°C ~ +85°C

DIMENSIONS AND RECOMMENDATION PAD



Unit: mm

Series	D	T	S	d	T1	L	P	d1
MGT8-3TY	7.2~8.2	10.0 ± 0.5	4.4 ± 0.4	1.0 ± 0.1	12.0 ± 0.5	15.0 ± 0.5	4.4	1.2

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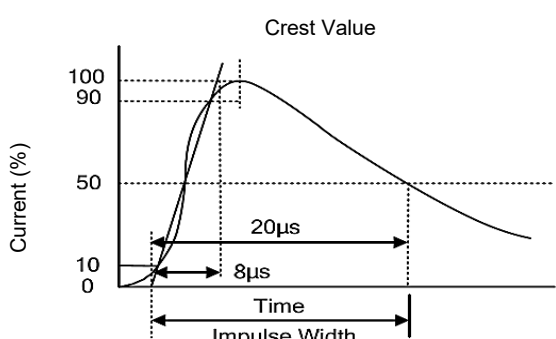
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PART NUMBERING SYSTEM

MGT **8** **M** **075M** **CB3TY**
 (1) (2) (3) (4) (5)

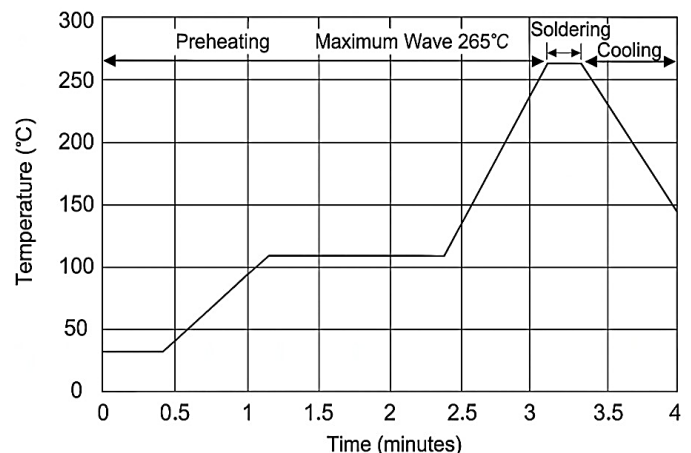
No	Item	Code	Description
(1)	Product Code	MGT	Gas Discharge Tube series
(2)	Size Code	8	8.0mm Diameter DxT: 8.0x10.0mm
(3)	Discharge Current	M	M: 10KA, 8/20μs, 10 times P: 20KA
(4)	DC Spark Over Voltage	075M	75V ±20%(M) DC Spark Over Voltage, 100V/s
(5)	Series Code	CB3TY	CB3TY: 3 Poles Bent Leded, Tray & Box package

ELECTRICAL RATING

Item	Test Condition	Requirement
DC Spark-over Voltage	The voltage is measured with voltage ramp $dv/dt = 100V/s$. Test is between each side electrode and center electrode.	To meet the specified value
Maximum Impulse Spark-over Voltage	The voltage is measured with voltage ramp $dv/dt = 1000V/\mu s$. Test is between each side electrode and center electrode.	
Impulse Discharge Current	Maximum surge current that can be applied through center electrode with 8/20μs waveform, for 10 times with 3min interval time, which will be equally divided between each side electrode to center electrode 	
Alternating Discharge Current	Rated RMS value of AC current at 50Hz, 1 second for 10 times with interval time 3 minutes. Test is between each side electrode and center electrode.	
Insulation Resistance	The resistance of gas tube shall be measured between each side electrodes and center electrode	
Capacitance	The capacitance of gas tube shall be measured between each side electrodes and center electrode. Test frequency: 1MHz	

RECOMMENDED SOLDERING PROFILES

Wave Soldering Process	Condition
Peak Temperature	265°C (max.)
Dipping Time	10 sec. (max.)
Soldering	1 time

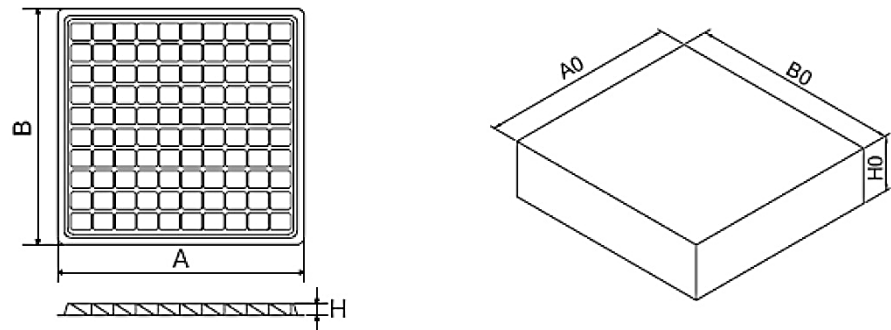


Gas Discharge Tube
8.0x10.0mm 3 Poles Bent Leaded

MGT8-3TY Series

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PACKAGING SPECIFICATION



Unit: mm

Package	A±2.0	B±2.0	H±0.5	Qty /Tray	A0±2.0	B0±2.0	H0±2.0	Qty/Box
Tray	217	207	10.3	100	225	210	60	500

*Specifications subject to change without notice.