

Gas Discharge Tube

6.0x8.5mm 3 Poles Bent Leded

MGT6-3TY 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

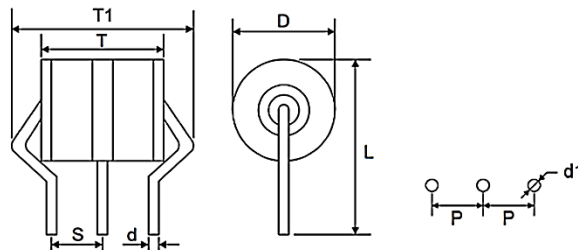


ELECTRICAL CHARACTERISTICS

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
6.0x8.5mm	(V)	(V)	(KA)	(A)	(Times)	(V_{DC})	(G Ω)	(pF)
MGT6L075MCB3TY	75 $\pm 20\%$	750	5	5	300	25	1	2
MGT6L090MCB3TY	90 $\pm 20\%$	750	5	5	300	50	1	2
MGT6L150MCB3TY	150 $\pm 20\%$	800	5	5	300	100	1	2
MGT6L230MCB3TY	230 $\pm 20\%$	800	5	5	300	100	1	2
MGT6L250MCB3TY	250 $\pm 20\%$	800	5	5	300	100	1	2
MGT6L300MCB3TY	300 $\pm 20\%$	900	5	5	300	100	1	2
MGT6L350MCB3TY	350 $\pm 20\%$	900	5	5	300	100	1	2
MGT6L470MCB3TY	470 $\pm 20\%$	950	5	5	300	250	1	2
MGT6L600MCB3TY	600 $\pm 20\%$	1300	5	5	300	250	1	2
MGT6M075MCB3TY	75 $\pm 20\%$	750	10	10	300	25	1	2
MGT6M090MCB3TY	90 $\pm 20\%$	750	10	10	300	50	1	2
MGT6M150MCB3TY	150 $\pm 20\%$	600	10	10	300	100	1	2
MGT6M230MCB3TY	230 $\pm 20\%$	650	10	10	300	100	1	2
MGT6M250MCB3TY	250 $\pm 20\%$	650	10	10	300	100	1	2
MGT6M300MCB3TY	300 $\pm 20\%$	800	10	10	300	100	1	2
MGT6M350MCB3TY	350 $\pm 20\%$	800	10	10	300	100	1	2
MGT6M470MCB3TY	470 $\pm 20\%$	1100	10	10	300	250	1	2
MGT6M600MCB3TY	600 $\pm 20\%$	1300	10	10	300	250	1	2

Note: Operating Temperature: $-40^{\circ}\text{C} \sim +85^{\circ}\text{C}$

DIMENSIONS AND RECOMMENDATION PAD



Unit: mm

Series	D	T	S	d	T1	L	P	d1
MGT6-3TY	5.5~6.2	8.5 ± 0.5	3.8 ± 0.3	0.8 ± 0.1	15 Max	16 Max	3.8	1.0

Gas Discharge Tube

6.0x8.5mm 3 Poles Bent Leded

MGT6-3TY Series

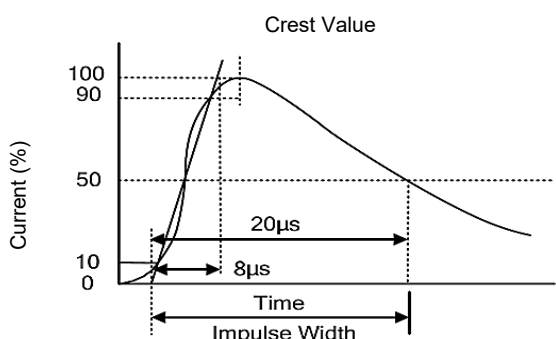
MERITEK

PART NUMBERING SYSTEM

MGT **6** **L** **075M** **CB3TY**
 (1) (2) (3) (4) (5)

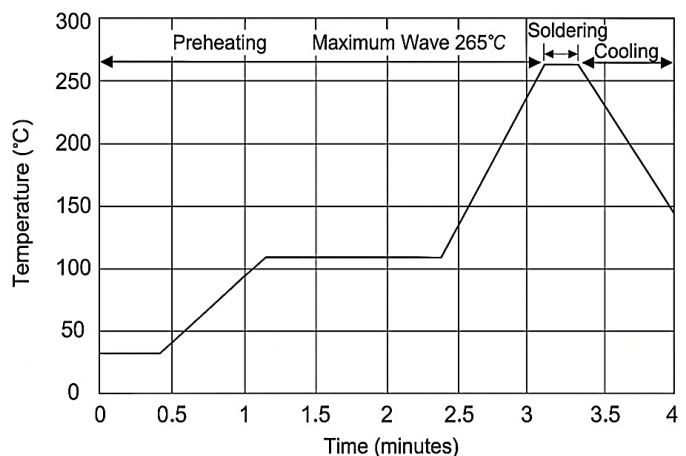
No	Item	Code	Description
(1)	Product Code	MGT	Gas Discharge Tube series
(2)	Size Code	6	6.0mm Diameter DxT: 6.0x8.5mm
(3)	Discharge Current	L	L: 5KA, 8/20μs, 10 times M:10KA
(4)	DC Spark Over Voltage	075M	75V ±20%(M) DC Spark Over Voltage, 100V/s
(5)	Series Code	CB3TY	CB3TY: 3 Poles Bent Leded, Tray & 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 Condition	
Peak Temp.	265°C
Dipping Time	10 sec
Solder	1 time

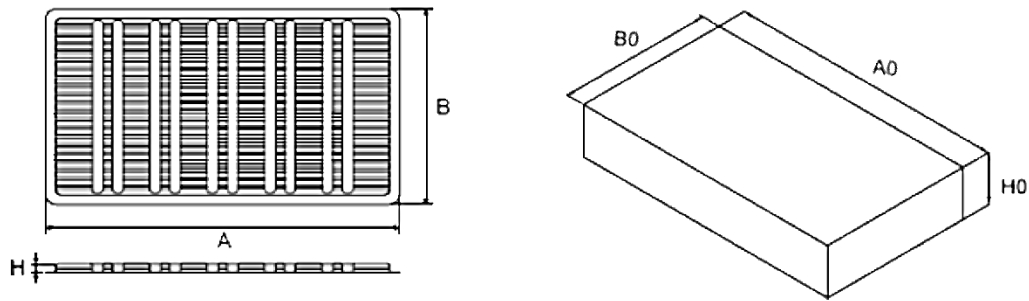


Gas Discharge Tube
6.0x8.5mm 3 Poles Bent Leded

MGT6-3TY Series

MERITEK

PACKAGING SPECIFICATION



Unit: mm

Package	A±2.0	B±2.0	H±0.5	Qty /Tray	A0±2.0	B1±2.0	H0±2.0	Qty/Box
Tray	217	20	10.3	100	225	210	60	500

*Specifications subject to change without notice.