

Gas Discharge Tube

8.0x6.0mm 2 Poles Round End

MGT8-26 Series

MERITEK

FEATURE

- Ultra-Fast Surge Response
- High Surge Current Capability
- High Holder Voltage, High Insulation Resistance
- Low capacitance ($\leq 1.5\text{pF}$), Micro-Gap Design
- Applications: Repeaters, Modems, Telephone Interface, Line cards, Data Communication Equipment, Line Test Equipment
- UL Safety Approved Certification No: E223045



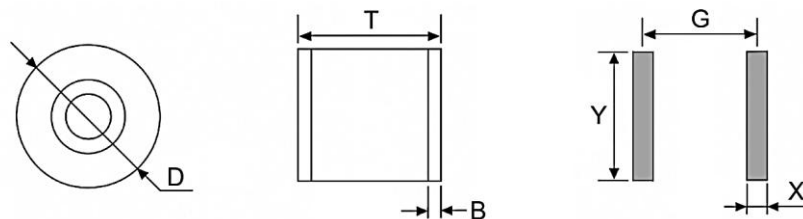
ELECTRICAL CHARACTERISTICS

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	8/20 μs , 100A	V_T	IR	1MHz
8.0x6.0mm	(V)	(V)	(KA)	(A)	(Times)	(V _{DC})	(G Ω)	(pF)
MGT8M102MCB26	1000 $\pm 20\%$	1900	10	5	300	500	1	1.5
MGT8M122MCB26	1200 $\pm 20\%$	2000	10	5	300	500	1	1.5
MGT8M142MCB26	1400 $\pm 20\%$	2200	10	5	300	500	1	1.5
MGT8M152MCB26	1500 $\pm 20\%$	2300	10	5	300	500	1	1.5
MGT8M162MCB26	1600 $\pm 20\%$	2400	10	5	300	500	1	1.5
MGT8L202MCB26	2000 $\pm 20\%$	3200	5	5	300	500	1	1.5
MGT8L252MCB26	2500 $\pm 20\%$	3800	5	5	300	500	1	1.5
MGT8L272MCB26	2700 $\pm 20\%$	4000	5	5	300	1000	1	1.5
MGT8L302MCB26	3000 $\pm 20\%$	4200	5	5	300	1000	1	1.5

Notes:

1. AC Withstanding Voltage of MGT8L252MCB26, MGT8L272MCB26 and MGT8L302MCB26: AC1250V, 1min.
2. Operating Temperature: -40°C ~ +85°C

DIMENSIONS AND RECOMMENDATION PAD



Unit: mm

Series	D	T	B	G	X	Y
MGT8-26	7.5~8.3	5.5~6.3	0.5 ± 0.1	6.0	1.5	8.0

Gas Discharge Tube

8.0x6.0mm 2 Poles Round End

MGT8-26 Series

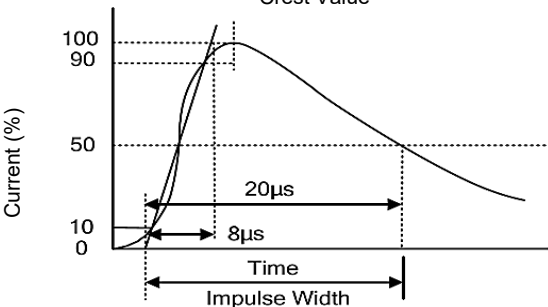
MERITEK

PART NUMBERING SYSTEM

MGT **8** **M** **102M** **CB26**
 (1) (2) (3) (4) (5)

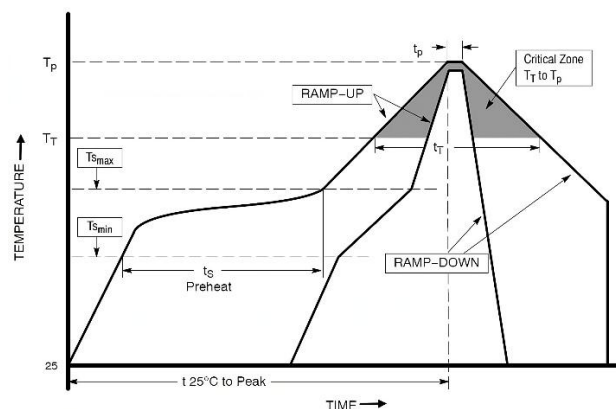
No	Item	Code	Description
(1)	Product Code	MGT	MGT: Gas Discharge Tube series
(2)	Size Code	8	8mm Diameter DxT: 8.0x6.0mm
(3)	Discharge Current	M	M: 10KA, 8/20μs, 10times L: 5KA
(4)	DC Spark Over Voltage	102M	1000V ±20%(M) DC Spark Over Voltage, 100V/s
(5)	Series Code	CB26	CB26: 2 Poles Round End Internal Control Reference

ELECTRICAL RATING

Item	Test Condition	Requirement
DC Spark-over Voltage	The voltage is measured with voltage ramp $dv/dt = 100V/s$.	To meet the specified value
Maximum Impulse Spark-over Voltage	The voltage is measured with voltage ramp $dv/dt = 1000V/\mu s$.	
Impulse Discharge Current	Maximum 8/20 μs surge current that can be applied between two electrodes, 5 positive and 5 negative surges, with 3 minutes interval time. Crest Value 	To meet the specified value
Alternating Discharge Current	Rated RMS value of AC current at 50Hz, 1 second for 10 times with interval time 3 minutes. $IR > 10^8 \Omega$.	To meet the specified value
Insulation Resistance	The resistance of gas tube shall be measured between two electrodes.	To meet the specified value
Capacitance	The capacitance of gas tube shall be measured between two electrodes.	

RECOMMENDED SOLDERING PROFILES

Reflow Soldering Condition		
Pre Heat	Temp. Min $T_{s(min)}$	150°C
	Temp. Max $T_{s(max)}$	200°C
	Time (min. to max.) (t_s)	60~180 sec
Average ramp up rate (T_L) to peak		3°C/sec Max.
$T_{s(max)}$ to T_L (Ramp-up rate)		3°C/sec Max.
Reflow	Temp. (T_L)	217°C
	Time (min. to max.) (t_L)	60~150 sec
Peak Temperature (T_p)		260°C
Time within 5°C of Peak Temp (t_p)		20~40 sec
Ramp-down Rate		6°C/sec Max.
Time (25°C to Peak Temp)		8 mins Max.

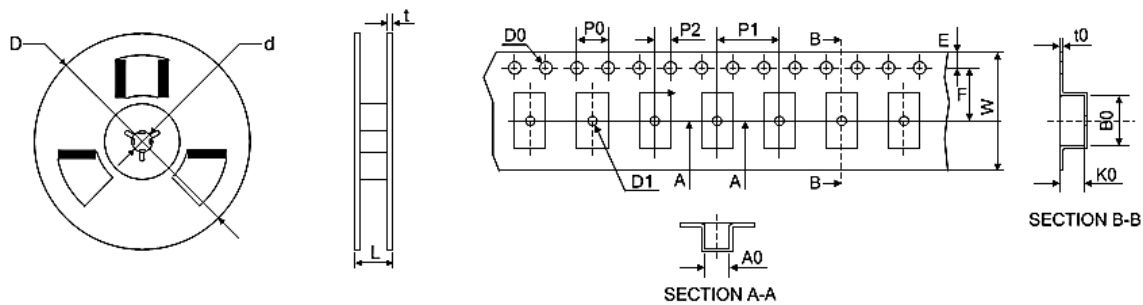


Gas Discharge Tube
8.0x6.0mm 2 Poles Round End

MGT8-26 Series

MERITEK

PACKAGING SPECIFICATION



Unit: mm

Package	D ±2.0	d ±0.5	L ±2.0	t ±0.2	W ±0.2	P0 ±0.1	P1 ±0.2	P2 ±0.1	D0 ±0.05	E ±0.1	F ±0.1	A0 ±0.1	K0 ±0.1	B0 ±0.1	t0 ±0.1	Qty/ Reel
Reel	330	13	20	2	16.0	4.0	12.0	2.0	1.55	1.75	7.5	8.20	8.50	7.50	0.5	500

*Specifications subject to change without notice.