

Gas Discharge Tube

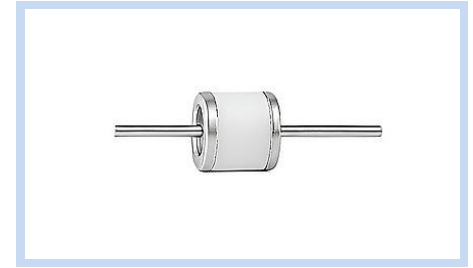
8.0x6.0mm 2 Poles Axial Leaded

MGT8-26Tx 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

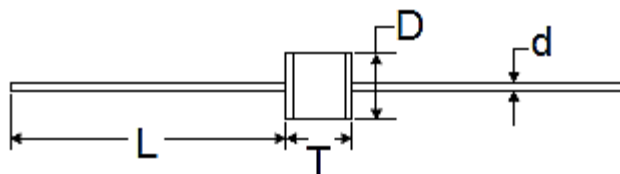


ELECTRICAL CHARACTERISTICS

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)
MGT8M102MCB26T	1000 $\pm 20\%$	1900	10	5	300	500	1	1.5
MGT8M122MCB26T	1200 $\pm 20\%$	2000	10	5	300	500	1	1.5
MGT8M142MCB26T	1400 $\pm 20\%$	2200	10	5	300	500	1	1.5
MGT8M152MCB26T	1500 $\pm 20\%$	2300	10	5	300	500	1	1.5
MGT8M162MCB26T	1600 $\pm 20\%$	2400	10	5	300	500	1	1.5
MGT8L202MCB26T	2000 $\pm 20\%$	3200	5	5	300	500	1	1.5
MGT8L252MCB26T	2500 $\pm 20\%$	3800	5	5	300	500	1	1.5
MGT8L272MCB26T	2700 $\pm 20\%$	4000	5	5	300	1000	1	1.5
MGT8L302MCB26T	3000 $\pm 20\%$	4200	5	5	300	1000	1	1.5

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

DIMENSIONS



Unit: mm

Series	D	T	d	L
MGT8-26Tx	7.5~8.3	5.5~6.3	0.8 ± 0.1	30.0 Max

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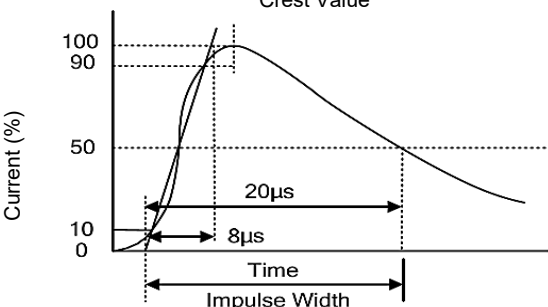
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PART NUMBERING SYSTEM

MGT **8** **M** **102M** **CB26T** **R**
 (1) (2) (3) (4) (5) (6)

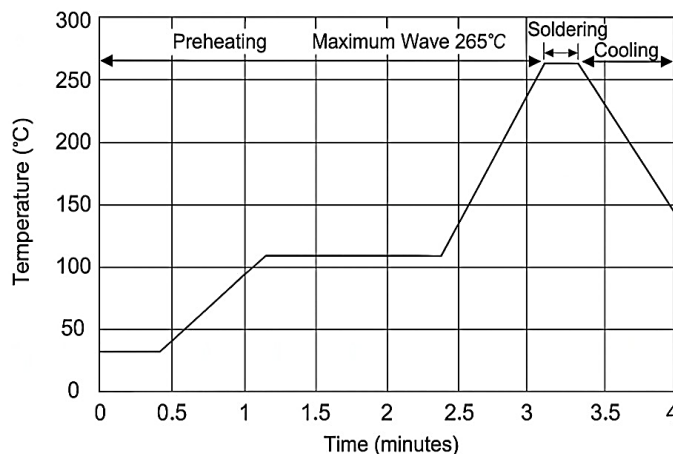
No	Item	Code	Description	
(1)	Product Code	MGT	Gas Discharge Tube series	
(2)	Size Code	8	8: 8mm Diameter	DxT: 8.0x6.0mm
(3)	Discharge Current	M	M: 10KA, 8/20μs, 10times	L: 5KA
(4)	DC Spark Over Voltage	102M	1000V ±20%(M)	DC Spark Over Voltage, 100V/s
(5)	Series Code	CB26T	CB26T: 2 Poles Round Axial Leaded	Internal Control Reference
(6)	Package Type	R	R: Tape and Reel	Y: Tray and Box

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

Wave Soldering Condition	
Peak Temp.	265°C
Dipping Time	10 sec
Solder	1 time



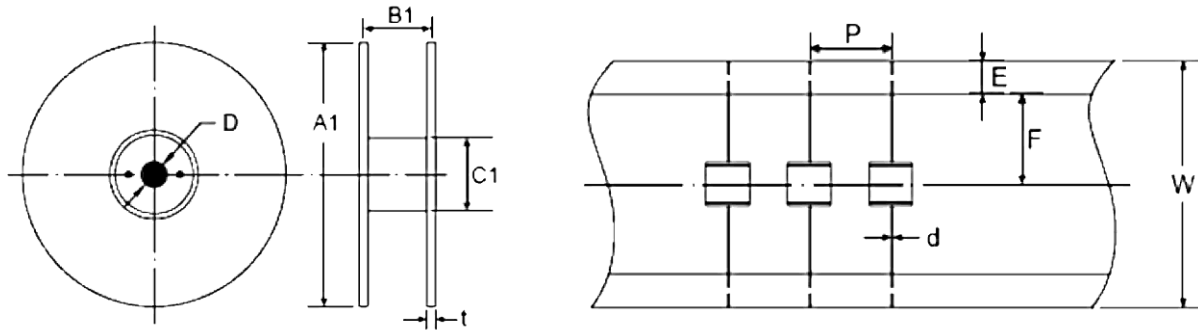
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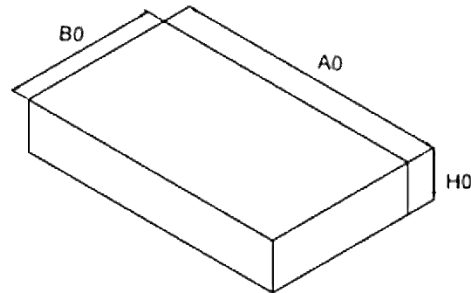
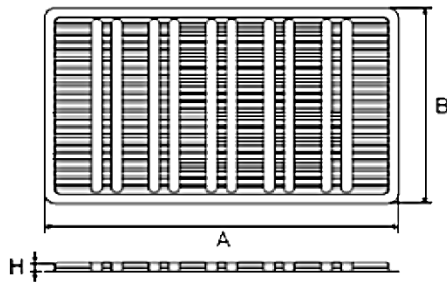
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PACKAGING SPECIFICATION



Unit: mm

Package	A1±2.0	B1±2.0	C1±2.0	D±0.5	t±0.2	P±0.5	W±1.0	E±0.5	F±0.5	d±0.1	Qty
Reel	330	70.0	82.0	25.0	2.0	10.0	65.0	6.0	26.5	0.8	800



Unit: mm

Package	A±2.0	B±2.0	H±1.0	Qty /Tray	A0±2.0	B0±2.0	H0±2.0	Qty/Box
Tray	267	146	8.5	100	270	150	50	500

*Specifications subject to change without notice.