

# Gas Discharge Tube

MGT Series

MERITEK

UL E223045

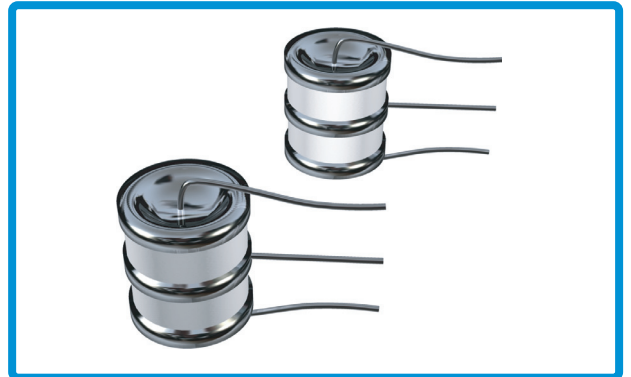
## FEATURE

- Rugged Ceramic-Metal Construction
- Available With Fail-Safe Clip
- Available With Or Without Leads
- Available With Various Lead Spacing
- Low capacitance (< 2pF)
- Large Transient Current Absorbing Capability



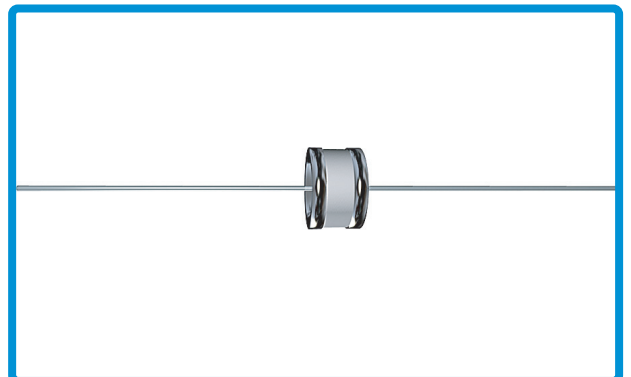
## APPLICATIONS

- Repeaters, Modems
- Telephone Interface, Line Cards
- Data Communication Equipment
- Line Test Equipment



## CHARACTERISTICS

- Two or three electrodes
- Discharge voltage: 70V to 800V
- 5.5mm or 8mm diameter



# Gas Discharge Tube



MGT Series

MERITEK

## 2-Electrode MGT ( $\phi 8.0 \times 6.0$ )

20KA/20A/200A

Dimensions: mm

MGT-AP****-CA8	MGT-BP****-CA8

Item	Parts Number							
	MGT-AP075L-CA8	MGT-AP090L-CA8	MGT-AP150L-CA8	MGT-AP230L-CA8	MGT-AP350L-CA8	MGT-AP470L-CA8	MGT-AP600L-CA8	
Without Lead	MGT-AP075L-CA8	MGT-AP090L-CA8	MGT-AP150L-CA8	MGT-AP230L-CA8	MGT-AP350L-CA8	MGT-AP470L-CA8	MGT-AP600L-CA8	
Axial Leaded	MGT-BP075L-CA8	MGT-BP090L-CA8	MGT-BP150L-CA8	MGT-BP230L-CA8	MGT-BP350L-CA8	MGT-BP470L-CA8	MGT-BP600L-CA8	
DC Breakdown Voltage (@100V/S) (V)	75	90	150	230	350	470	600	
Tolerance of DCBV	±15%	±15%	±15%	±15%	±15%	±15%	±15%	
Impulse Breakdown Voltage (@1KV/ $\mu$ S) (V)	≤650	≤650	≤650	≤700	≤900	≤1000	≤1200	
AC Discharge Current (@50HZ) (A)	20	20	20	20	20	20	20	
Surge Discharge Current (@10/1000 $\mu$ s) (A)	200	200	200	200	200	200	200	
Surge Discharge Current (@8/20 $\mu$ s) (KA)	20	20	20	20	20	20	20	
Insulation Resistance (M $\Omega$ )	≥10000	≥10000	≥10000	≥10000	≥10000	≥10000	≥10000	
Electrode Capacitance (@1MHZ) (pF)	≤1.5	≤1.5	≤1.5	≤1.5	≤1.5	≤1.5	≤1.5	
Note								

### 2-Electrode MGT ( $\phi 8.0 \times 6.0$ )

#### 10KA/10A/100A

#### Dimensions: mm

MGT-AM****-CA8	MGT-BM****-CA8

Item	Parts Number						
Without Lead	MGT-AM075L-CA8	MGT-AM090L-CA8	MGT-AM150L-CA8	MGT-AM230L-CA8	MGT-AM350L-CA8	MGT-AM470L-CA8	MGT-AM600L-CA8
Axial Leaded	MGT-BM075L-CA8	MGT-BM090L-CA8	MGT-BM150L-CA8	MGT-BM230L-CA8	MGT-BM350L-CA8	MGT-BM470L-CA8	MGT-BM600L-CA8
DC Breakdown Voltage (@100V/S) (V)	75	90	150	230	350	470	600
Tolerance of DCBV	±15%	±15%	±15%	±15%	±15%	±15%	±15%
Impulse Breakdown Voltage (@1KV/μs) (V)	≤650	≤650	≤650	≤700	≤900	≤1000	≤1200
AC Discharge Current (@50HZ) (A)	10	10	10	10	10	10	10
Surge Discharge Current (@10/1000 μs) (A)	100	100	100	100	100	100	100
Surge Discharge Current (@8/20 μs) (KA)	10	10	10	10	10	10	10
Insulation Resistance (MΩ)	≥10000	≥10000	≥10000	≥10000	≥10000	≥10000	≥10000
Electrode Capacitance (@1MHZ) (pF)	≤1.5	≤1.5	≤1.5	≤1.5	≤1.5	≤1.5	≤1.5
Note							

### 3-Electrode MGT ( $\phi 7.5 \times 11.5$ )

#### 10KA/10A/100A

Dimensions: mm

MGT-SM****-CAA	MGT-MM****-CAA	MGT-MM****-FAA

Item	Parts Number							
	MGT-SM075L-CAA	MGT-SM090L-CAA	MGT-SM150L-CAA	MGT-SM230L-CAA	MGT-SM350L-CAA	MGT-SM470L-CAA	MGT-SM600L-CAA	
Without Lead	MGT-MM075L-CAA	MGT-MM090L-CAA	MGT-MM150L-CAA	MGT-MM230L-CAA	MGT-MM350L-CAA	MGT-MM470L-CAA	MGT-MM600L-CAA	
Axial Leaded	MGT-MM075L-FAA	MGT-MM090L-FAA	MGT-MM150L-FAA	MGT-MM230L-FAA	MGT-MM350L-FAA	MGT-MM470L-FAA	MGT-MM600L-FAA	
Leaded w/Fail Safe								
DC Breakdown Voltage (@100V/S) (V)	75	90	150	230	350	470	600	
Tolerance of DCBV	±15%	±15%	±15%	±15%	±15%	±15%	±15%	
Impulse Breakdown Voltage (@1KV/ $\mu$ S) (V)	≤650	≤650	≤650	≤700	≤900	≤1000	≤1200	
AC Discharge Current (@50HZ) (A)	10	10	10	10	10	10	10	
Surge Discharge Current (@10/1000 $\mu$ s) (A)	100	100	100	100	100	100	100	
Surge Discharge Current (@8/20 $\mu$ s) (KA)	10	10	10	10	10	10	10	
Insulation Resistance (M $\Omega$ )	≥10000	≥10000	≥10000	≥10000	≥10000	≥10000	≥10000	
Electrode Capacitance (@1MHZ) (pF)	≤1.5	≤1.5	≤1.5	≤1.5	≤1.5	≤1.5	≤1.5	
Note								

### 3-Electrode MGT ( $\phi 6 \times 8.5$ )

10KA/10A/100A

Dimensions: mm

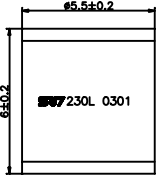
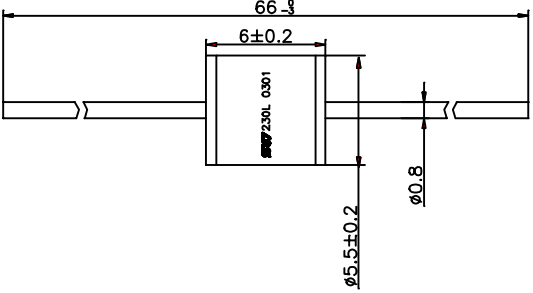
MGT-SM****-CAD	MGT-MM****-CAD	MGT-NM***-CAD	MGT-MM****-FAD

Item	Parts Number						
Without Lead	MGT-SM075L-CAD	MGT-SM090L-CAD	MGT-SM150L-CAD	MGT-SM230L-CAD	MGT-SM350L-CAD	MGT-SM470L-CAD	MGT-SM600L-CAD
Axial Leaded	MGT-MM075L-CAD	MGT-MM090L-CAD	MGT-MM150L-CAD	MGT-MM230L-CAD	MGT-MM350L-CAD	MGT-MM470L-CAD	MGT-MM600L-CAD
Axial Leaded	MGT-NM075L-CAD	MGT-NM090L-CAD	MGT-NM150L-CAD	MGT-NM230L-CAD	MGT-NM350L-CAD	MGT-NM470L-CAD	MGT-NM600L-CAD
Leaded w/Fail Safe	MGT-MM075L-FAD	MGT-MM090L-FAD	MGT-MM150L-FAD	MGT-MM230L-FAD	MGT-MM350L-FAD	MGT-MM470L-FAD	MGT-MM600L-FAD
DC Breakdown Voltage (@100V/S) (V)	75	90	150	230	350	470	600
Tolerance of DCBV	±15%	±15%	±15%	±15%	±15%	±15%	±15%
Impulse Breakdown Voltage (@1KV/μ S) (V)	≤650	≤650	≤650	≤700	≤900	≤1000	≤1200
AC Discharge Current (@50HZ) (A)	10	10	10	10	10	10	10
Surge Discharge Current (@10/1000 μ s) (A)	100	100	100	100	100	100	100
Surge Discharge Current (@8/20 μ s) (KA)	10	10	10	10	10	10	10
Insulation Resistance (MΩ)	≥10000	≥10000	≥10000	≥10000	≥10000	≥10000	≥10000
Electrode Capacitance (@1MHZ) (pF)	≤1.5	≤1.5	≤1.5	≤1.5	≤1.5	≤1.5	≤1.5
Note							

### 2-Electrode MGT ( $\phi 5.5 \times 6.0$ )

#### 5KA/5A/100A

#### Dimensions: mm

MGT-AL****-CA5	MGT-BL****-CA5
	

Item	Parts Number						
	MGT-AL75L-CA5	MGT-AL90L-CA5	MGT-AL150L-CA5	MGT-AL230L-CA5	MGT-AL350L-CA5	MGT-AL470L-CA5	MGT-AL600L-CA5
Without Lead	MGT-AL75L-CA5	MGT-AL90L-CA5	MGT-AL150L-CA5	MGT-AL230L-CA5	MGT-AL350L-CA5	MGT-AL470L-CA5	MGT-AL600L-CA5
Axial Leaded	MGT-BL075L-CA5	MGT-BL090L-CA5	MGT-BL150L-CA5	MGT-BL230L-CA5	MGT-BL350L-CA5	MGT-BL470L-CA5	MGT-BL600L-CA5
DC Breakdown Voltage (@100V/S) (V)	75	90	150	230	350	470	600
Tolerance of DCBV	±15%	±15%	±15%	±15%	±15%	±15%	±15%
Impulse Breakdown Voltage (@1KV/μS) (V)	≤650	≤650	≤650	≤700	≤900	≤1000	≤1200
AC Discharge Current (@50HZ) (A)	5	5	5	5	5	5	5
Surge Discharge Current (@10/1000 μs) (A)	100	100	100	100	100	100	100
Surge Discharge Current (@8/20 μs) (KA)	5	5	5	5	5	5	5
Insulation Resistance (MΩ)	≥10000	≥10000	≥10000	≥10000	≥10000	≥10000	≥10000
Electrode Capacitance (@1MHZ) (pF)	≤1.5	≤1.5	≤1.5	≤1.5	≤1.5	≤1.5	≤1.5
Note							