

OPERATING CHARACTERISTICS
TIMING

 Operate Time:
 4.0 ms max.

 Release Time:
 MGS: 2.0 ms max.
 MGSD/MGSDD: 7.5 ms max.
 (suppression diode, protection/suppression diodes)
 MGST: 7.5 ms max.
 (suppression/zener diodes)

CONTACT BOUNCE

1.5 ms max.

DIELECTRIC WITHSTANDING VOLTAGE

 Between Open Contacts:
 500 Vrms 60 Hz

 Between Adjacent Contacts:
 500 Vrms 60 Hz

 Between Contacts & Coil:
 500 Vrms 60 Hz

INSULATION RESISTANCE

 10,000 megohms min. @ 500 Vdc
 1,000 megohms @ 500 Vdc
 (coil to case @ +125°C)

ENVIRONMENTAL CHARACTERISTICS
TEMPERATURE RANGE

-65°C to +125°C

WEIGHT

 0.09 oz. (2.55 gms)
 0.129 oz. (3.45 gms) w/ mounting pad attached

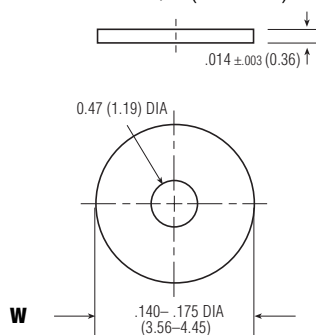
VIBRATION RESISTANCE

30 G's, 10 to 3,000 Hz

SHOCK RESISTANCE

75 G's, 6 ±1 ms max.

QPL APPROVAL

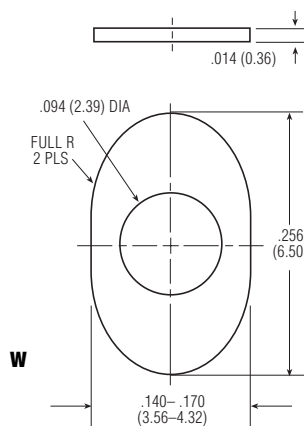
 MIL-R-39016/41 (JMGS)
 MIL-R-39016/42 (JMGSDD)
 MIL-R-39016/43 (JMGSDD)
 MIL-R-28776/7 (JMGSST)

**MGS/MGSD/MGSDD
MOUNTING PAD**
SEMICONDUCTOR CHARACTERISTICS
DIODE

 100 Vdc peak inverse voltage (PIV)
 1.0 Vdc max. transient voltage

ZENER DIODE

20 Vdc ±3 Vdc over temperature range

MOSFET

 0.5 Vdc min. gate turn off voltage
 4.3 Vdc max. gate turn on voltage

**MGST
MOUNTING PAD**
COIL DATA

NOM. COIL VOLTAGE (Vdc)	COIL RESISTANCE IN OHMS ±10% @ 25°C (Note)	COIL CIRCUIT CURRENT mA (MAX.) (Note)	COIL CIRCUIT CURRENT mA (MIN.) (Note)	PICKUP VOLTAGE Vdc (MAX.) @ 25°C	PICKUP VOLTAGE Vdc (MAX.) @ 125°C	DROP-OUT VOLTAGE Vdc (MIN.) @ 25°C	DROP-OUT VOLTAGE Vdc (MIN.) @ -65°C	NOM. COIL POWER (mW) @ 25°C	MAX. COIL VOLTAGE	COIL DESIG.
MGS/MGSD										
5.0	100	n/a	n/a	2.6	3.5	0.23	0.12	250	7.5	5
6.0	200	n/a	n/a	3.4	4.5	0.28	0.18	180	10.0	6
9.0	400	n/a	n/a	4.85	6.8	0.55	0.35	203	15.0	9
12.0	800	n/a	n/a	7.0	9.0	0.64	0.41	180	20.0	12
18.0	1,600	n/a	n/a	9.8	13.5	0.92	0.59	203	30.0	18
26.5	3,200	n/a	n/a	14.0	18.0	1.4	0.89	219	40.0	26
36.0	6,500	n/a	n/a	20.0	27.0	1.8	1.25	199	57.0	36
48.0	11,000	n/a	n/a	25.8	36.0	2.4	1.60	209	75.0	48
MGSD										
5.0	64	78.1	56.8	2.9	3.7	0.8	0.7	391	7.5	5
6.0	125	48.9	36.3	4.0	4.8	0.9	0.8	288	10.0	6
9.0	400	23.6	18.1	6.1	8.0	1.1	0.9	203	15.0	9
12.0	800	16.0	12.5	7.8	11.0	1.3	1.0	180	20.0	12
18.0	1,600	12.2	9.6	11.3	14.5	1.5	1.1	203	30.0	18
26.5	3,200	9.0	7.2	15.2	19.0	1.7	1.3	219	40.0	26
36.0	6,500	6.1	4.9	21.7	27.2	2.3	1.7	199	57.0	36
48.0	11,000	4.8	3.9	27.8	34.8	2.8	2.0	209	75.0	48
MGST										
5.0	100	56.0	43.0	2.9	4.0	0.23	0.13	250	5.6	5
6.0	200	33.0	27.0	3.5	4.9	0.32	0.18	180	8.0	6
9.0	400	26.4	17.8	5.3	7.3	0.48	0.27	203	12.0	9
12.0	800	17.7	11.3	7.1	9.8	0.65	0.36	180	16.0	12
18.0	1,600	13.8	8.4	10.6	14.6	0.97	0.54	203	24.0	18
26.5	3,200	10.2	5.8	14.2	19.5	1.30	0.72	219	32.0	26

Note: Coil resistance not directly measurable. Coil current should be within limits shown when tested at nominal voltage at 25°C for 5 seconds max.

SPECIFYING A PART NUMBER EXAMPLE:

TYPE	TERMINALS	DIODES	GROUND PINS	COILS	MOUNTING PADS
MGS	C	D	G	-26	W