

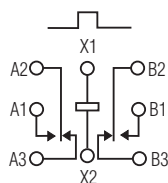
MGA · MGAD · MGADD · MGAT

100 GRID HIGH-PERFORMANCE RELAYS

MGA

**STANDARD .100 GRID
HIGH-PERFORMANCE RELAY**

**QUALIFIED TO
MIL-R-39016/17**



TERMINAL VIEW

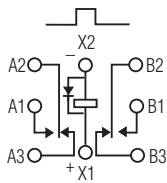
FEATURES

- Hermetically sealed
- High shock & vibration ratings
- Mounting pads
- Excellent RF switching

MGAD

**STANDARD .100 GRID
DIODE SUPPRESSED
HIGH-PERFORMANCE RELAY**

**QUALIFIED TO
MIL-R-39016/18**



TERMINAL VIEW

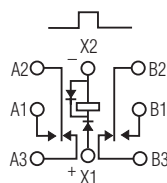
FEATURES

- Suppression diode
- Hermetically sealed
- High shock & vibration ratings
- Mounting pads
- Excellent RF switching

MGADD

**STANDARD .100 GRID DIODE
SUPPRESSED/PROTECTED
HIGH-PERFORMANCE RELAY**

**QUALIFIED TO
MIL-R-39016/19**



TERMINAL VIEW

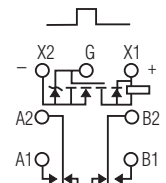
FEATURES

- Suppression & protection diodes
- Hermetically sealed
- High shock & vibration ratings
- Mounting pads
- Excellent RF switching

MGAT

**STANDARD .100 GRID DIODE
SUPPRESSED/MOSFET DRIVEN
HIGH-PERFORMANCE RELAY**

**QUALIFIED TO
MIL-R-28776/6**



TERMINAL VIEW

FEATURES

- MOSFET driver, zener & suppression diodes
- Hermetically sealed
- High shock & vibration ratings
- Mounting pads
- Excellent RF switching

ELECTRICAL CHARACTERISTICS

CONTACT ARRANGEMENT
2 Form C (DPDT)

CONTACT MATERIAL
Stationary:
Gold/platinum/palladium/silver
(gold plated)
Moveable:
Gold/platinum/palladium/silver
(gold plated)

CONTACT RESISTANCE
Before Life: 100 milliohms max.
(measured @ 10 mA @ 6 Vdc)
After Life: 200 milliohms max.
(measured @ 1 A @ 28 Vdc)

MECHANICAL LIFE EXPECTANCY
1 million operations

COIL VOLTAGE
5 to 26.5 Vdc

COIL POWER
660 mW max. @ 25°C

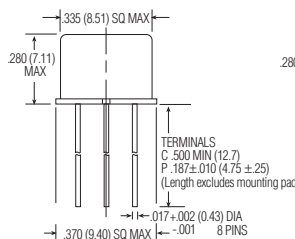
DUTY CYCLE
Continuous

PICK-UP VOLTAGE
Approximately 50% of
nominal coil voltage

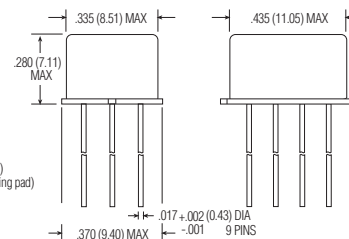
PICK-UP SENSITIVITY
130 mW max. @ 25°C

CONTACT RATINGS

CONTACT LOAD	TYPE	OPERATIONS MIN.
1.0 A @ 28 Vdc	Resistive	100,000
250 mA @ 115 Vac, 60 Hz & 400 Hz	Resistive (case not grounded)	100,000
100 mA @ 115 Vac, 60 Hz & 400 Hz	Resistive	100,000
0.2 A @ 28 Vdc	Inductive (0.32 Henry)	100,000
0.1 A @ 28 Vdc	Lamp	100,000
30 µA @ 50 mVdc	Low Level	1,000,000
0.1 A @ 28 Vdc	Intermediate Current	50,000



MGA/MGAD/MGADD ENCLOSURE



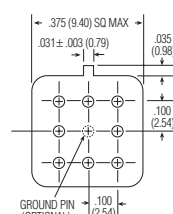
MGAT ENCLOSURE



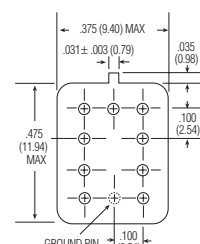
MGA



MGAT



MGA/MGAD/MGADD HEADER



MGAT HEADER

OPERATING CHARACTERISTICS
TIMING

 Operate Time:
 2.0 ms max.

 Release Time:
 MGA: 1.5 ms max.
 MGAD/MGADD: 4.0 ms max.
 (suppression diode, protection/sup-
 pression diodes)
 MGAT: 4.0 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

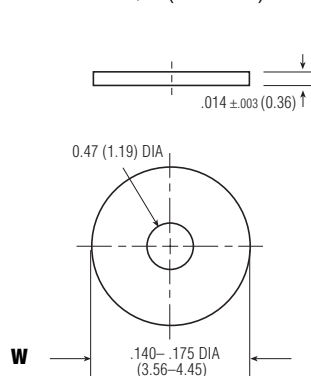
VIBRATION RESISTANCE

30 G's, 10 to 3,000 Hz

SHOCK RESISTANCE

75 G's, 6 ± 1 ms max.

QPL APPROVAL

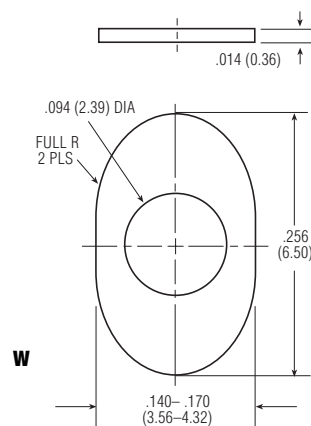
 MIL-R-39016/17 (JMGA)
 MIL-R-39016/18 (JMGAD)
 MIL-R-39016/19 (JMGADD)
 MIL-R-28776/6 (JMGAT)

**MGA/MGAD/MGADD
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

**MGAT
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.
MGA/MGAD										
5.0	50	n/a	n/a	2.7	3.5	0.22	0.14	500	5.8	5
6.0	98	n/a	n/a	3.5	4.5	0.28	0.18	367	8.0	6
9.0	220	n/a	n/a	5.3	6.8	0.54	0.35	368	12.0	9
12.0	390	n/a	n/a	7.0	9.0	0.63	0.41	369	16.0	12
18.0	880	n/a	n/a	10.5	13.5	0.91	0.59	368	24.0	18
26.5	1,560	n/a	n/a	14.2	18.0	1.37	0.89	450	32.0	26
MGADD										
5.0	39	128.2	93.2	3.2	4.0	0.6	0.6	641	5.8	5
6.0	78	78.3	58.3	4.0	5.0	0.7	0.7	462	8.0	6
9.0	220	42.9	33.0	6.3	7.8	0.9	0.8	368	12.0	9
12.0	390	32.8	25.6	8.0	10.0	1.1	0.9	369	16.0	12
18.0	880	22.1	17.5	11.5	14.5	1.4	1.1	368	24.0	18
26.5	1,560	18.5	14.8	15.2	19.0	1.8	1.4	450	32.0	26
MGAT										
5.0	39	132.3	96.5	2.9	3.5	0.23	0.13	641	5.8	5
6.0	78	83.9	60.3	3.5	4.5	0.32	0.18	462	8.0	6
9.0	220	47.1	33.1	5.3	6.8	0.48	0.27	368	12.0	9
12.0	390	36.1	24.9	7.1	9.0	0.65	0.36	369	16.0	12
18.0	880	24.1	16.1	10.6	13.5	0.97	0.54	368	24.0	18
26.5	1,560	19.9	12.9	14.2	18.0	1.30	0.72	450	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
 MGA

TERMINALS
 C

**DIODES
TRANSISTOR**
 D

GROUND PINS
 G

COILS
 -26

MOUNTING PADS
 W

Данный компонент на территории Российской Федерации

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Нашей специализацией является поставка электронной компонентной базы двойного назначения, продукции таких производителей как XILINX, Intel (ex.ALTERA), Vicor, Microchip, Texas Instruments, Analog Devices, Mini-Circuits, Amphenol, Glenair.

Сотрудничество с глобальными дистрибьюторами электронных компонентов, предоставляет возможность заказывать и получать с международных складов практически любой перечень компонентов в оптимальные для Вас сроки.

На всех этапах разработки и производства наши партнеры могут получить квалифицированную поддержку опытных инженеров.

Система менеджмента качества компании отвечает требованиям в соответствии с ГОСТ Р ИСО 9001, ГОСТ РВ 0015-002 и ЭС РД 009

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