

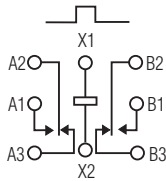
MGS · MGSD · MGSDD · MGST

.100 GRID HIGH-PERFORMANCE RELAYS

MGS

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

**QUALIFIED TO
MIL-R-39016/41**



TERMINAL VIEW

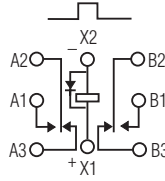
FEATURES

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

MGSD

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

**QUALIFIED TO
MIL-R-39016/42**



TERMINAL VIEW

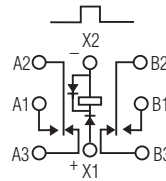
FEATURES

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

MGSDD

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

**QUALIFIED TO
MIL-R-39016/43**



TERMINAL VIEW

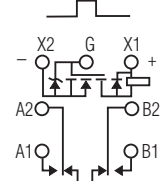
FEATURES

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

MGST

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

**QUALIFIED TO
MIL-R-28776/7**



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 48 Vdc

COIL POWER
565 mW max. @ 25°C

DUTY CYCLE
Continuous

PICK-UP VOLTAGE
Approximately 50% of
nominal coil voltage

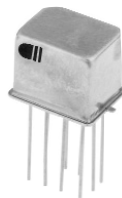
PICK-UP SENSITIVITY
60 mW max. @ 25°C

CONTACT RATINGS

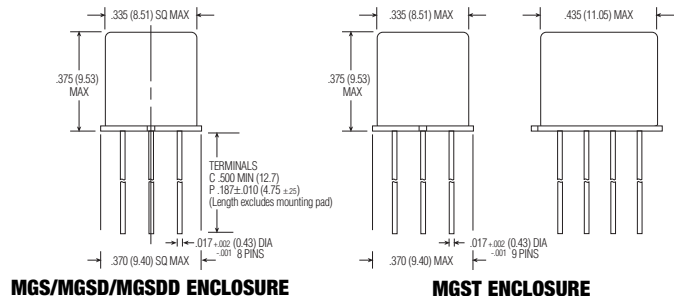
CONTACT LOAD	TYPE	OPERATIONS MIN.
1.0 A @ 28 Vdc	Resistive	100,000
250 mA @ 115 Vac, 60 Hz & 400 Hz	Resistive (case not grounded)	100,000
100 mA @ 115 Vac, 60 Hz & 400 Hz	Resistive	100,000
0.2 A @ 28 Vdc	Inductive (0.32 Henry)	100,000
0.1 A @ 28 Vdc	Lamp	100,000
30 µA @ 50 mVdc	Low Level	1,000,000
0.1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



MGS

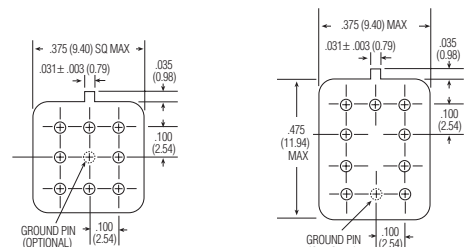


MGST



MGS/MGSD/MGSDD ENCLOSURE

MGST ENCLOSURE



MGS/MGSD/MGSDD HEADER

MGST HEADER

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

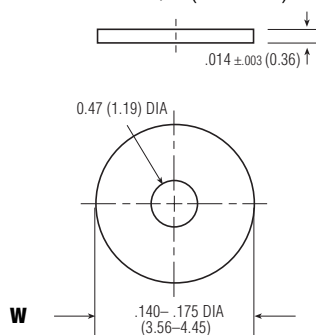
VIBRATION RESISTANCE

30 G's, 10 to 3,000 Hz

SHOCK RESISTANCE

75 G's, 6 ±1 ms max.

QPL APPROVAL

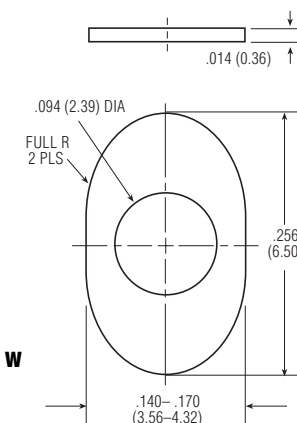
 MIL-R-39016/41 (JMGS)
 MIL-R-39016/42 (JMGSDD)
 MIL-R-39016/43 (JMGSDD)
 MIL-R-28776/7 (JMGSST)

**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

Данный компонент на территории Российской Федерации

Вы можете приобрести в компании MosChip.

Для оперативного оформления запроса Вам необходимо перейти по данной ссылке:

<http://moschip.ru/get-element>

Вы можете разместить у нас заказ для любого Вашего проекта, будь то серийное производство или разработка единичного прибора.

В нашем ассортименте представлены ведущие мировые производители активных и пассивных электронных компонентов.

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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