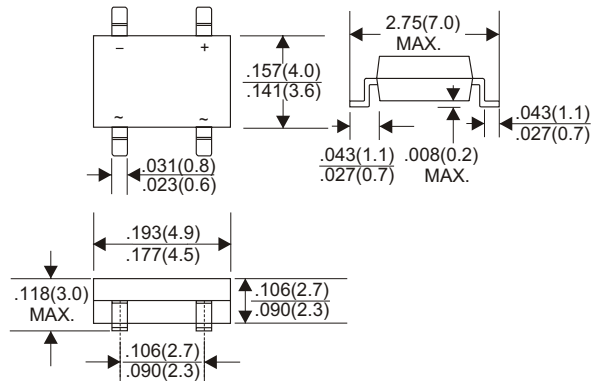


A suffix of "-C" specifies halogen & lead-free



MDS



Dimensions in inches and (millimeters)

● FEATURES

- RoHS Compliant Product
- Ideal for printed circuit board
- Reliable low cost construction utilizing molded plastic technique
- High surge current capability
- Polarity: Symbol molded on body
- Mounting position: Any
- Weight: 0.12 grams

● MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Rating 25 °C ambient temperatures unless otherwise specified.

Resistive or inductive load, 60Hz,

For capacitive load, derate current by 20%.

TYPE NUMBER	MD1S	MD2S	MD3S	MD4S	MD5S	MD6S	MD7S	UNITS
Maximum Recurrent Peak Reverse Voltage	50	100	200	400	600	800	1000	V
Maximum RMS Voltage	35	70	140	280	420	560	700	V
Maximum DC Blocking Voltage	50	100	200	400	600	800	1000	V
Maximum Average Forward Rectified Current at Ta = 40 °C (Note1)	0.8							A
Peak Forward Surge Current, 8.3 ms Single Half Sine-Wave Superimposed on Rated Load (JEDEC Method)	30							A
Maximum Forward Voltage Drop per Bridge Element at 0.4A D.C.	1.0							V
Maximum DC Reverse Current at Rated DC Blocking Voltage Ta = 25 °C	5.0							µA
at Rated DC Blocking Voltage Ta = 125 °C	500							µA
Typical Thermal Resistance RθJA (Note2)	75							°C/W
Operating Temperature Range, Tj	-55 ~ +150							°C
Storage Temperature Range, TSTG	-55 ~ +150							°C

Notes:

1. Mounted on P.C. Board.
2. Thermal Resistance Junction to Ambient.

● RATING AND CHARACTERISTIC CURVES (MD1S THRU MD7S)

FIG.1-TYPICAL FORWARD CURRENT DERATING CURVE

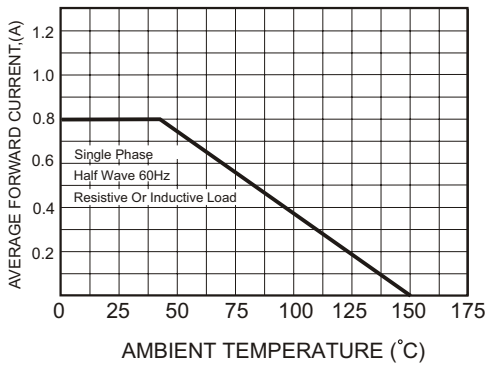


FIG.2-MAXIMUM NON-REPETITIVE FORWARD SURGE CURRENT

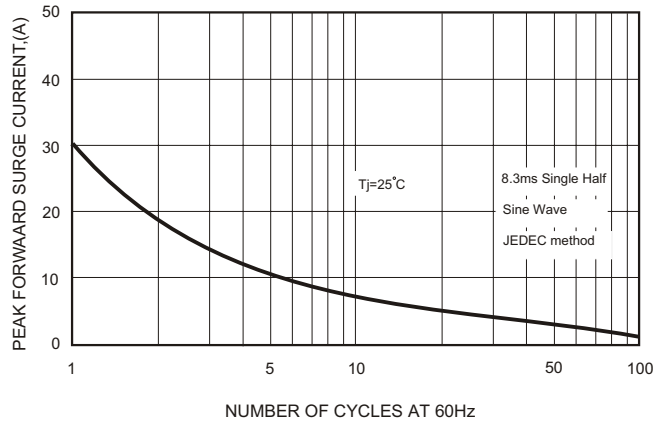


FIG.3-TYPICAL FORWARD CHARACTERISTICS

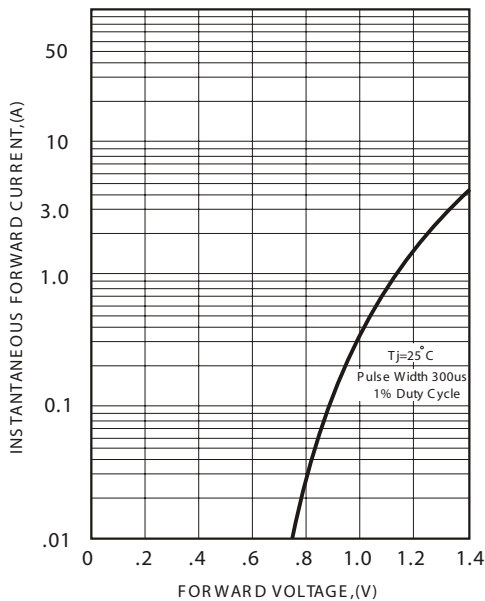


FIG.4-TYPICAL REVERSE CHARACTERISTICS

