SURFACE MOUNT BRIDGE

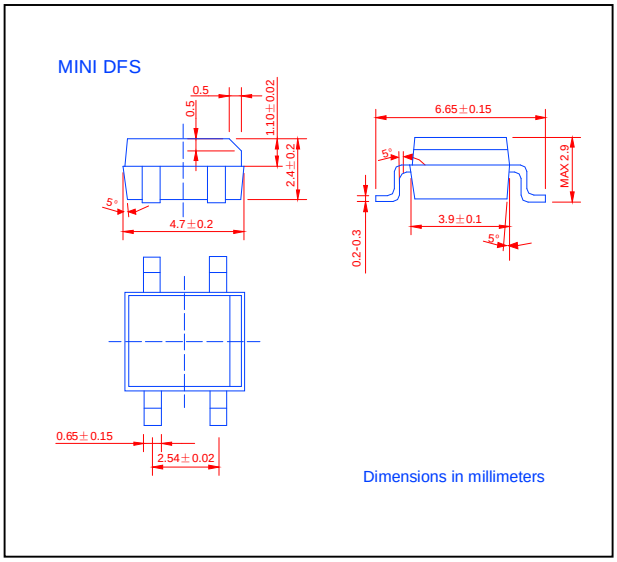
MDF005 THRU MDF10

VOLTAGE RANGE **50 to 1000 Volts**

CURRENT **1.0 Amperes**

FEATURES

- Glass passivated chip junction
  Ideal for surface mounted applications
- Low leakage
- High forward surge current capability
- High temperature soldering guaranteed:
  260℃/10 seconds at terminals



MECHANICAL DATA

- Case: Epoxy, Molded plastic body
- Epoxy: UL94V-0 rate fkame retardant
- Polarity: Molded on body
- Lead: Plated terminals solderable per
  MIL-STD-202E method 208C
- Weight: 0.4 ounce, 0.1 gram

MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

- Ratings at 25℃ ambient temperature unless otherwise specified
- Single Phase, half wave, 60Hz, resistive or inductive load
- For capacitive load derate current by 20%

		SYMBOLS	MDF005	MDF01	MDF02	MDF04	MDF06	MDF02	MDF10	UNIT
Maximum Reverse Peak Repetitive Voltage		V_{RRM}	50	100	200	400	600	800	1000	Volts
Maximum RMS Voltage		V_{RMS}	35	70	140	280	420	560	700	Volts
Maximum DC Blocking Voltage		V_{DC}	50	100	200	400	600	800	1000	Volts
Maximum Average Forward Rectified Output Current, 0.06"(1.5mm) lead length at T_C=40℃ (Note 2)		$I_{(AV)}$	0.8							Amps
Peak Forward Surge Current 8.3ms single half sine wave superimposed on rated load (JEDEC Method)		I_{FSM}	40							Amps
Rating for Fusing (t<8.3ms)		I^2t	8							A^2s
Maximum Instantaneous Forward Voltage drop Per Bridge element 0.8A		V_F	1.2							Volts
Maximum DC Reverse Current at rated DC blocking voltage per element	T_A=25℃	I_R	10							μAmps
	T_A=125℃		0.5							μAmps
Typical Junction Capacitance (NOTE 1)		C_J	25							℃/W
Typical Thermal Resistance (NOTE 2)		$R_{\Theta JC}$	50							V_{AC}
Operating and Storage Temperature Range		T_J ,T_{STG}	(-55 to +150)							℃

Notes: 1.Measured at 1.0MHz and applied reverse voltage of 4.0 Volts.
2.Unit mounted on P.C.B. with 0.51"×0.51" (13×13mm) Copper plate.

SURFACE MOUNT BRIDGE

MDF005 THRU MDF10

VOLTAGE RANGE	**50 to 1000 Volts**
CURRENT	**1.0 Ampere**

RATINGS AND CHARACTERISTIC CURVES MDF005 THRU MDF10

FIG. 1 - DERATING CURVE FOR OUTPUT RECTIFIED CURRENT

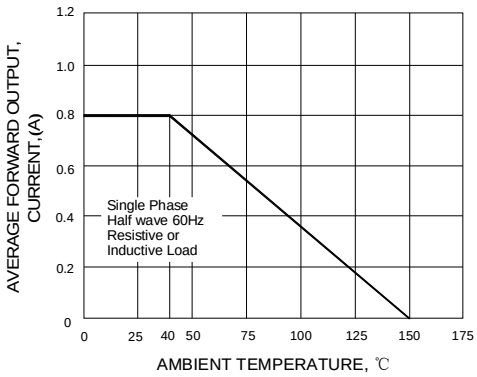


FIG. 2 - MAXIMUM NON-REPETITIVE PEAK FORWARD SURGE CURRENT PER ELEMENT

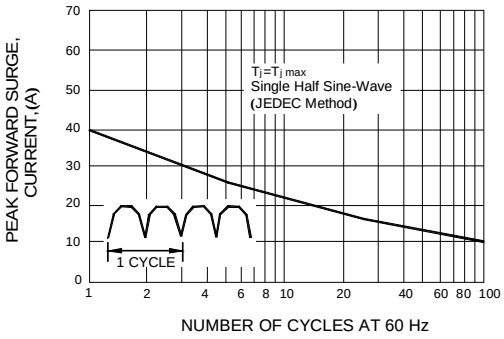


FIG. 3- TYPICAL FORWARD CHARACTERISTICS PER BRIDGE ELEMENT

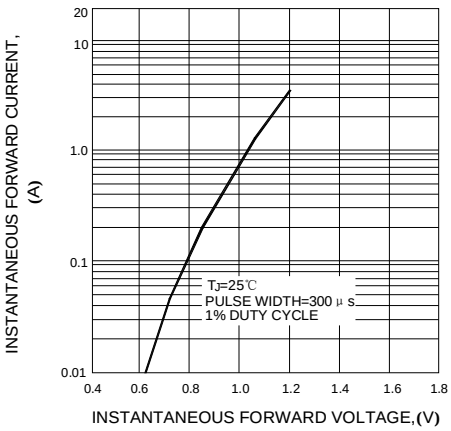


FIG. 4 - TYPICAL REVERSE CHARACTERISTICS PER BRIDGE ELEMENT

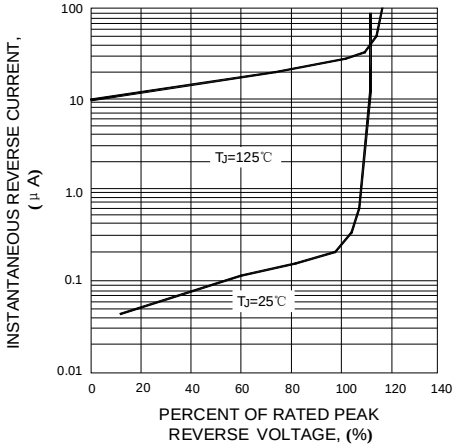


FIG. 5- TYPICAL JUNCTION CAPACITANCE PER BRIDGE ELEMENT

