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0.8A MINI SURFACE MOUNT BRIDGE RECTIFIERS

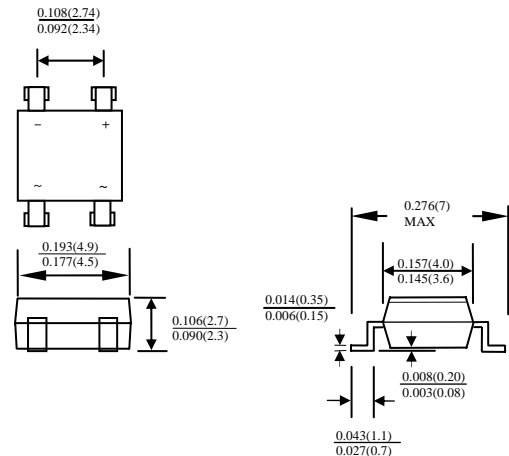
MD005S-LFR OR (MB005S-LFR) THRU MD10S-LFR OR (MB10S-LFR)

FEATURES

- PLASTIC MATERIAL USED CARRIES UNDERWRITERS LABORATORY RECOGNITION 94V-0
- GLASS PASSIVATED CHIP
- IDEAL FOR PRINTED CIRCUIT BOARD
- ROHS

MECHANICAL DATA

- CASE: MOLDED PLASTIC, DIMENSIONS IN INCHES AND (MILLIMETERS)
- TERMINALS: LEAD SOLDERABLE PER MIL-STD-202, METHOD 208
- POLARITY: POLARITY SYMBOLS MARKED ON BODY
- MOUNTING POSITION: ANY
- WEIGHT: 0.22 GRAMS



MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS RATINGS AT 25°C AMBIENT TEMPERATURE UNLESS OTHERWISE SPECIFIED SINGLE PHASE, HALF WAVE, 60 HZ, RESISTIVE OR INDUCTIVE LOAD. FOR CAPACITIVE LOAD, DERATE CURRENT BY 20%

RATINGS	SYMBOL	MD(B)005S -LFR	MD(B)1S -LFR	MD(B)2S -LFR	MD(B)4S -LFR	MD(B)6S -LFR	MD(B)8S -LFR	MD(B)10S -LFR	UNITS
MAXIMUM RECURRENT PEAK REVERSE VOLTAGE	V_{RRM}	50	100	200	400	600	800	1000	V
MAXIMUM RMS VOLTAGE	V_{RMS}	35	70	140	280	420	560	700	V
MAXIMUM DC BLOCKING VOLTAGE	V_{DC}	50	100	200	400	600	800	1000	V
MAXIMUM AVERAGE FORWARD OUTPUT RECTIFIED CURRENT AT $T_A=40^\circ\text{C}$	I_O	0.8							A
PEAK FORWARD SURGE CURRENT SINGLE HALF SINE-WAVE SUPERIMPOSED ON RATED LOAD	I_{FSM}	30							A
TYPICAL JUNCTION CAPACITANCE PER ELEMENT (NOTE 1)	C_j	18							PF
STORAGE TEMPERATURE RANGE	T_{STG}	- 55 TO + 150							°C
OPERATING TEMPERATURE RANGE	T_{OP}	- 55 TO + 150							°C

ELECTRICAL CHARACTERISTICS ($A_T T_A = 25^\circ\text{C}$ UNLESS OTHERWISE NOTED)

CHARACTERISTICS	SYMBOL	MD(B)005S -LFR	MD(B)1S -LFR	MD(B)2S -LFR	MD(B)4S -LFR	MD(B)6S -LFR	MD(B)8S -LFR	MD(B)10S -LFR	UNITS
MAXIMUM INSTANTANEOUS FORWARD VOLTAGE DROP PER ELEMENT AT 0.8A	V_F	1.0							V
MAXIMUM REVERSE CURRENT $T_A=25^\circ\text{C}$	I_R	5.0							μA mA
AT RATED DC BLOCKING VOLTAGE PER ELEMENT $T_A=125^\circ\text{C}$		0.5							
MARKING		MD005S OR MB005S	MD1S OR MB1S	MD2S OR MB2S	MD4S OR MB4S	MD6S OR MB6S	MD8S OR MB8S	MD10S OR MB10S	

NOTE: 1. MEASURED AT 1.0 MHZ AND APPLIED REVERSE VOLTAGE OF 4.0 VOLTS

RATING AND CHARACTERISTICS CURVES MD(B)005S-LFR THRU MD(B)10S-LFR

FIG. 1 - DERATING CURVE FOR OUTPUT RECTIFIED CURRENT

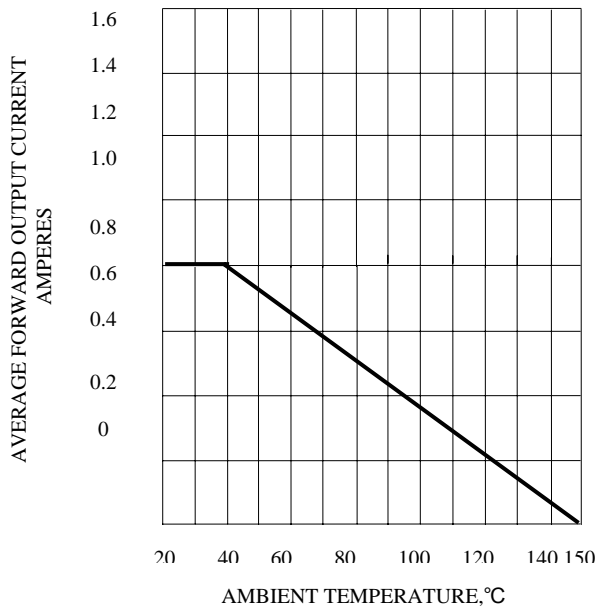


FIG. 2 - MAXIMUM NON-REPETITIVE PEAK FORWARD SURGE CURRENT PER LEG

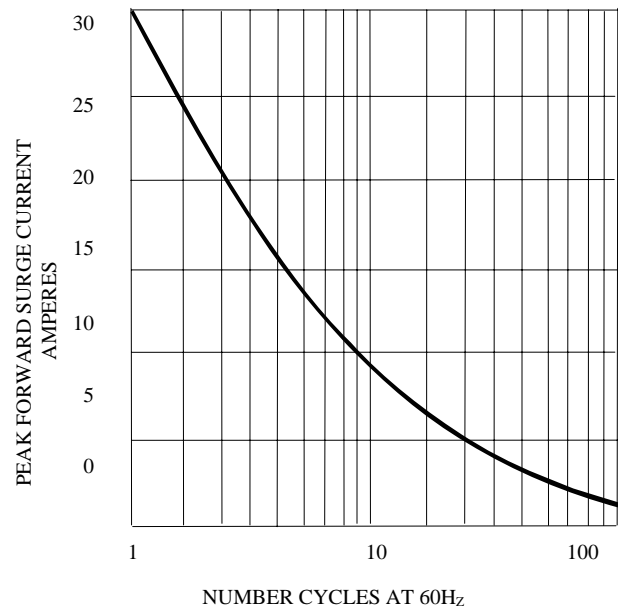


FIG. 3 - TYPICAL FORWARD CHARACTERISTICS

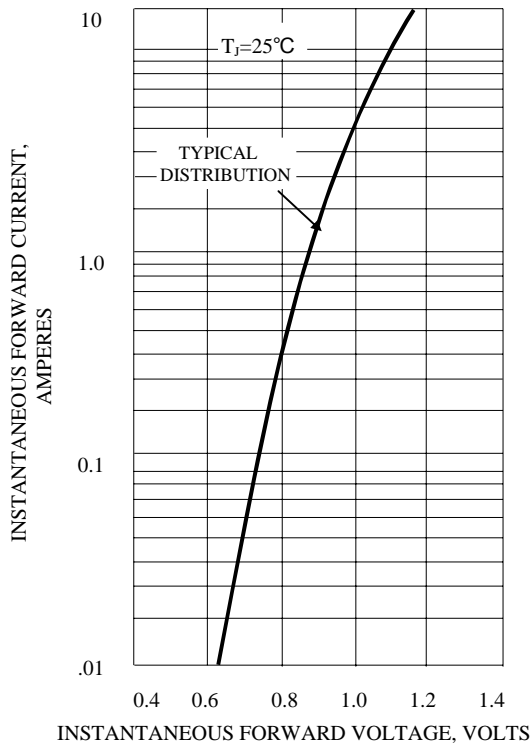


FIG. 4 - TYPICAL REVERSE CHARACTERISTICS

