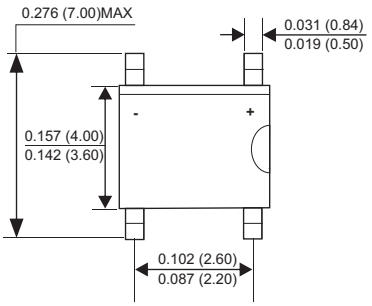
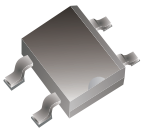
MB6S - MB10S
Bridge Rectifiers





MBS

Features

- ☐ Surge overload rating: 30 amperes peak.
- ☐ Glass passivated junction.
- ☐ Low leakage.

Absolute Maximum Ratings * T_A = 25°C unless otherwise noted

Symbol	Parameter	Value			Units
		MB6S	MB8S	MB10S	
V_{RRM}	Maximum Repetitive Peak Reverse Voltage	600	800	1000	V
V_{RMS}	Maximum RMS Voltage	420	560	700	V
V_{DC}	Maximum DC Blocking Voltage	600	800	1000	V
$I_{F(AV)}$	Average Rectified Forward Current *	0.8			A
I_{FSM}	Peak Forward Surge Current **	30			A
I^2t	I^2t Rating for fusing (t<8.3ms)	3.735			A^2S
T_J	Operating Junction Temperature Range	-55 to +150			°C
T_{STG}	Storage Temperature Range	-55 to +150			°C

* 60Hz sine wave, R-load, T_A = 25°C on FR-4 PCB.
** 60Hz sine wave, Non-repetitive 1 cycle peak value, T_J = 25°C.

Thermal Characteristics*

Symbol	Parameter	Typ.	Units
$R_{\theta JA}$	Thermal Resistance, Junction-Ambient		
	- Measurement with Dual Dice	280	°C/W
	- Measurement with Single Die	175	°C/W
Ψ_{JL}	Thermal Characterization, Junction to Lead		
	- Measured at Anode pin	70	°C/W
	- Measured at Cathode pin	20	°C/W

* Device mounted on FR-4 PCB with board size = 76.2mm x 114.3mm (JESD51-3 standards)

Electrical Characteristics T_A = 25°C unless otherwise specified

Symbol	Parameter	Test condition	Value	Units
V_F	Maximum Forward Voltage	I_F = 1A, Pulse measurement, Per diode	1.1	V
I_R	Maximum Reverse Current	@ V_{RRM}, Pulse measurement, Per diode	10	μA
C_J	Typical Junction Capacitance	V_R = 4V, f = 1MHz	10	pF

Typical Characteristics

Fig.1 - Maximum Forward Current Derating Curve

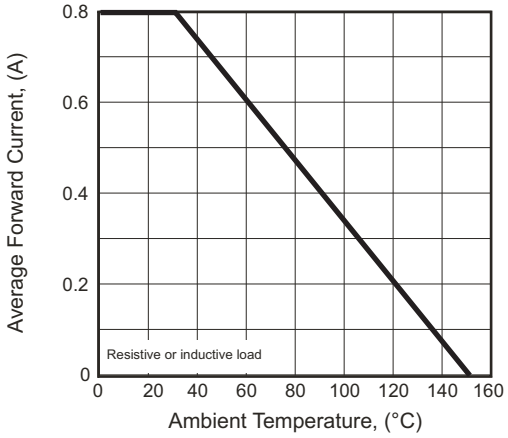


Fig.2 - Maximum Non-repetitive Forward Surge Current Per Bridge Elelment

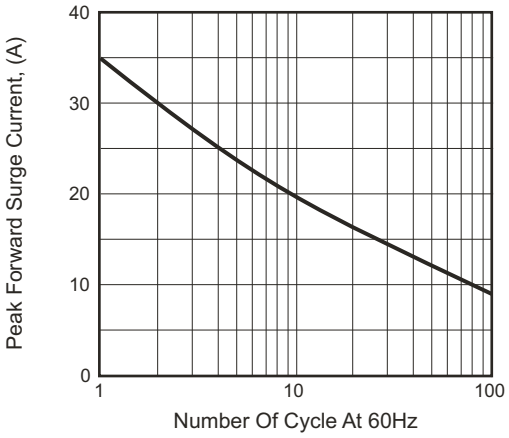


Fig.3 - Typical Instantaneous Forward Characteristics Per Bridge Element

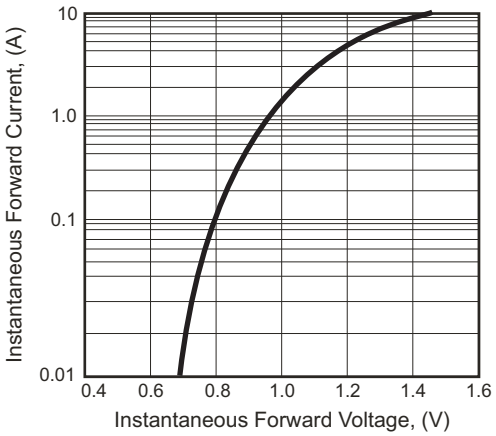
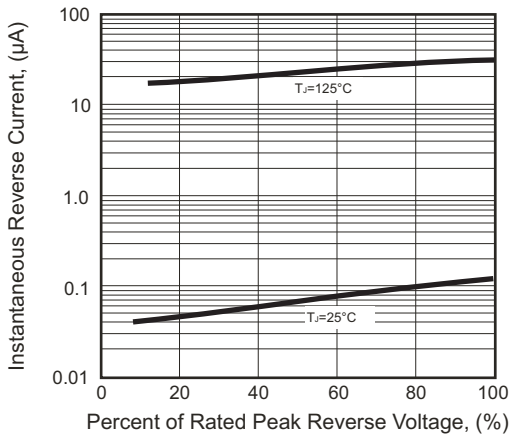


Fig.4 - Typical Reverse Characteristics Per Bridge Element



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