



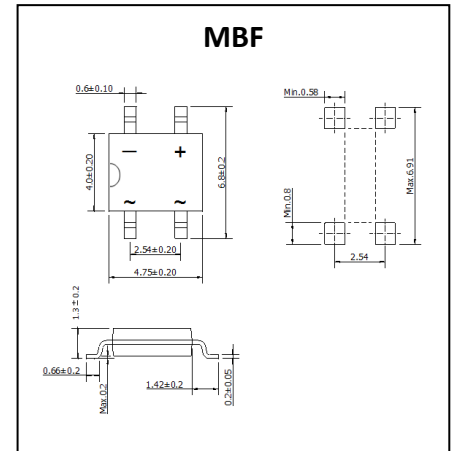
MB315F-MB320F

Feature

- I_O : 3A
- V_{RRM} : 150~200V
- High Forward Surge Capability
- Glass Passivated Chip Junction

Marking

- MB3XXF
XX : From 15 to 20



MAXIMUM RATINGS & ELECTRICAL CHARACTERISTICS ($T_A=25^\circ\text{C}$ unless otherwise noted)

Parameter	Symbol	MB315F	MB320F	Unit
Repetitive Peak Reverse Voltage	V_{RRM}	150	200	V
Maximum RMS Voltage	V_{RMS}	105	140	V
Maximum DC Blocking Voltage	V_{DC}	150	200	V
Maximum Average Forward Output Current	$I_{F(AV)}$	3.0		A
Peak Forward Surge Current, 8.3ms Single Half-Sine-Wave	I_{FSM}	80		A
Rating For Fusing ($t < 8.3\text{ms}$)	I^2t	26.56		A^2S
Maximum Instantaneous Forward Voltage	V_F	0.9		V
Maximum Reverse Current Rated VR	I_R	$T_A=25^\circ\text{C}$	0.1	mA
		$T_A=100^\circ\text{C}$	5	
Junction Temperature	T_J	-55 ~ +150		$^\circ\text{C}$
Storage Temperature	T_{STG}	-55 ~ +150		$^\circ\text{C}$
Typical Thermal Resistance ¹⁾	$R_{\theta JA}$	55		$^\circ\text{C}/\text{W}$
	$R_{\theta JL}$	17		

Note:

1) On glass epoxy P.C.B. mounted on 0.05 x 0.05" (1.3 x 1.3 mm) pads

Typical Characteristics

Fig.1-Forward Current Derating Curve

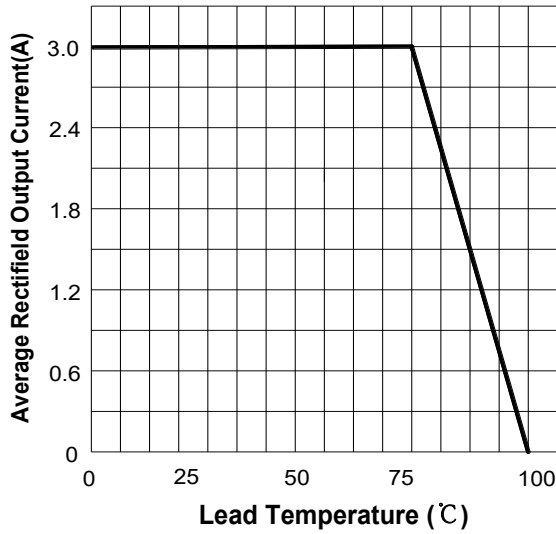


Fig.2- Surge Current Derating Curve

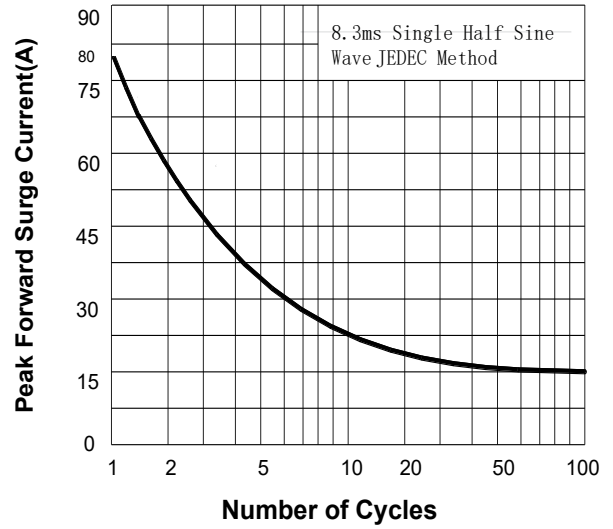


Fig.3- Typical Forward Voltage Characteristic

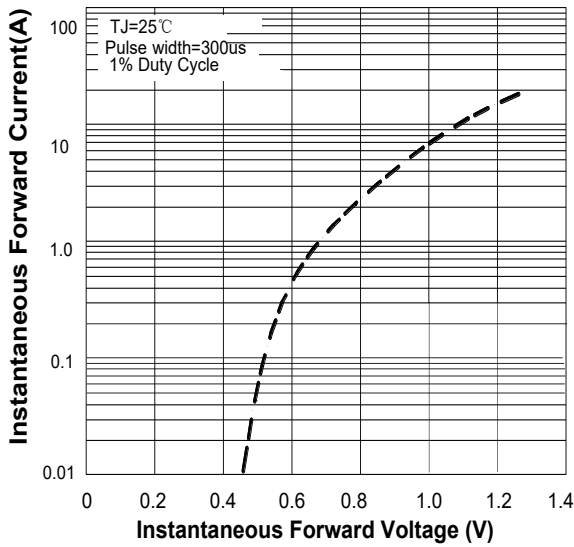
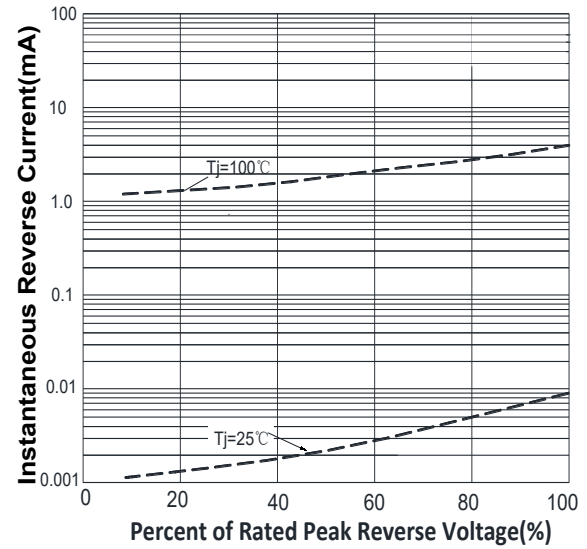


Fig.4- Typical Reverse Characteristic



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