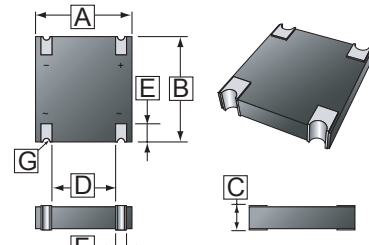


RoHS compliant product
A suffix of "-C" specifies halogen & lead-free

FEATURES

- High current capability
- Internal structure with GPRC (Glass Passivated Rectifier Chip) inside
- Leadless chip form, no lead damage
- Solder Joint, No Wire bond & Lead Frame
- Low profile package
- For surface mounted applications
- Built-in strain relief
- Low power loss, high efficiency
- High current capability and surge capacity
- Plastic package has UL Flammability Classification 94V-0

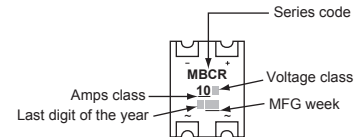
Case: MBCR



REF.	Millimeter		REF.	Millimeter	
	Min.	Max.		Min.	Max.
A	5.20	5.40	E	1.00	1.20
B	5.70	5.90	F	0.85	0.95
C	1.10	1.30	G	R 0.2 REF.	
D	3.25	3.35			

MECHANICAL DATA

- Case : Packed with FRP substrate and epoxy under-filled
- Terminals : Tin plated , solderable per MIL-STD-750, Method 2026
- Polarity: Laser Marking
- Weight: 0.07 grams



MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Rating at 25°C ambient temperature unless otherwise specified.

PARAMETERS	SYMBOL	MB105	MB106	MB107	UNIT
Peak Repetitive Peak Reverse Voltage	V_{RRM}	600	800	1000	V
Working Peak Reverse Voltage	V_{RMS}	420	560	700	
DC Blocking Voltage	V_{DC}	600	800	1000	
Maximum Average Forward Rectified Current @ $T_A=55^\circ C$	$I_{(AV)}$	1.0			A
Peak Forward Surge Current 8.3 ms Single Half Sine-Wave Super Imposed on Rated Load (JEDEC Method)	I_{FSM}	30			A
Maximum Forward Voltage at $I_F=0.4A$, at $I_F=1.0A$	V_F	0.9 1.0			V
Maximum DC Reverse Current @ $T_J=25^\circ C$ at Rated DC Blocking Voltage @ $T_J=125^\circ C$	I_R	5 200			μA
I^2t Rating for Fusing ($t<8.3ms$)	I^2t	3.74			A^2s
Typical Junction Capacitance Per Element (Note1)	C_J	25			pF
Typical Thermal Resistance (Note2)	$R_{\theta JA}$	110			$^\circ C/W$
Operating and Storage temperature range	T_J, T_{STG}	-55 ~ 175			$^\circ C$

Note: 1. Measured at 1.0 MHz and applied reverse voltage of 4.0 V DC
2. Thermal resistance from junction to ambient measured on P.C.B. with 5.0mm² (0.03 mm thick) land areas.

RATINGS AND CHARACTERISTIC CURVES

FIG.1 - FORWARD CURRENT DERATING CURVE

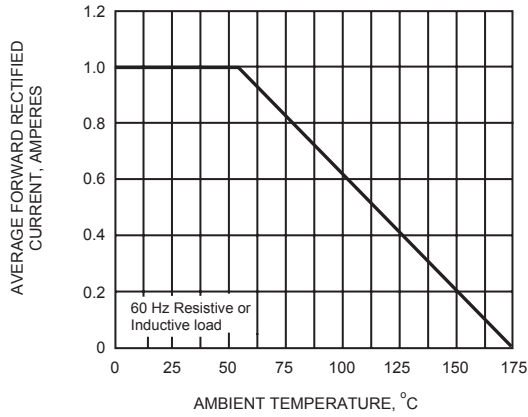


FIG.2 - MAXIMUM NON-REPETITIVE PEAK FORWARD SURGE CURRENT

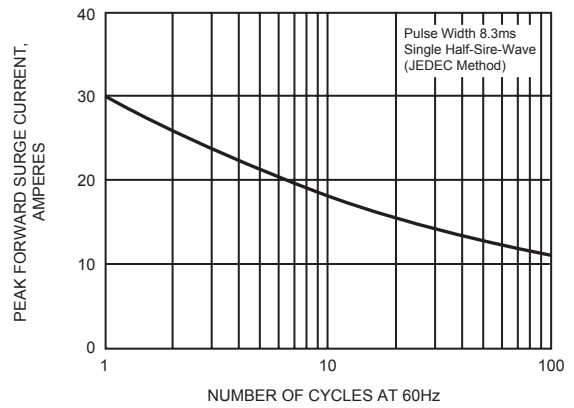


FIG.3 - TYPICAL INSTANTANEOUS FORWARD CHARACTERISTICS

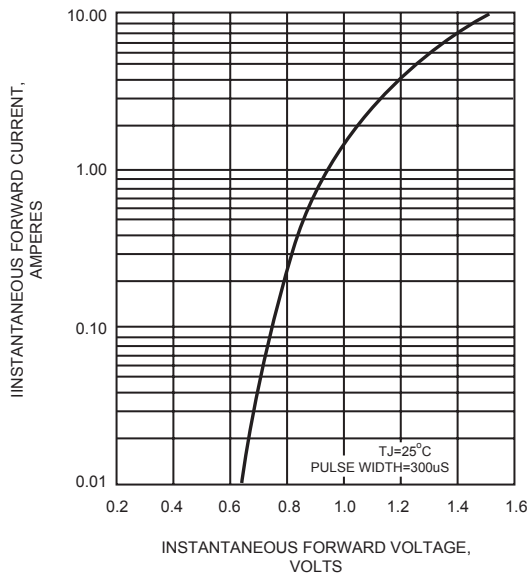


FIG.4 - TYPICAL REVERSE CHARACTERISTICS PER BRIDGE ELEMENT

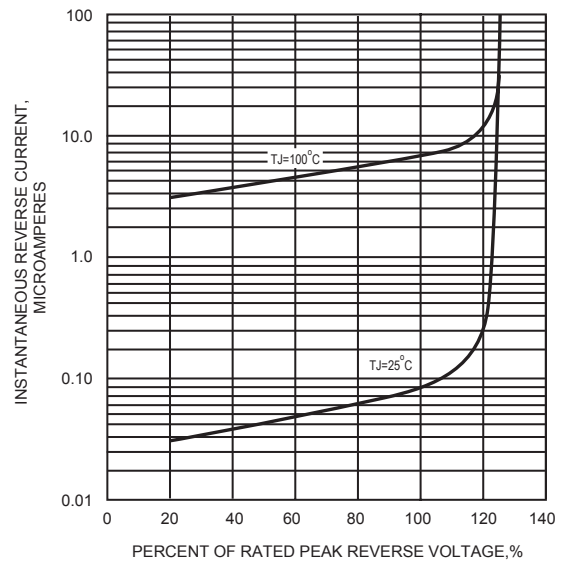


FIG.5 - TYPICAL JUNCTION CAPACITANCE

