



SINGLE-PHASE 1.0AMP. GLASS PASSIVATED BRIDGE RECTIFIERS

BC10M

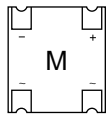
FEATURE

- . Glass passivated chip junctions.
- . Halogen-ROSH product.
- . Leadless chip form,no lead damage.
- . Small size,simple installation
- . High efficiency、 High current capability、 Low power loss.
- . Reliable low cost construction

MECHANICAL DATA

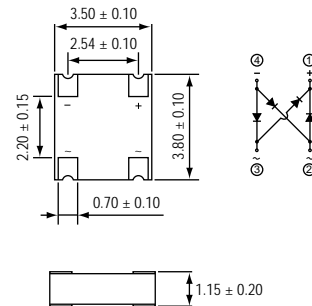
- . Case: Molded plastic.
- . Epoxy: UL 94V-0 rate flame retardant.
- . Lead: MIL-STD- 202E, Method 208 guaranteed.
- . Polarity: Symbols molded or marked on body.
- . Mounting position: Any.

MARKING



OUTLINE DIMENSIONS
Case:BCM

Unit : mm



MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

(single-phase, half-wave, 60HZ, resistive or inductive load rating at 25°C, unless otherwise stated)

Type Number	SYMBOL	BC10M	units
Maximum Recurrent Peak Reverse Voltage	V_{RRM}	1000	V
Maximum RMS Voltage	V_{RMS}	700	V
Maximum DC blocking Voltage	V_{DC}	1000	V
Maximum Average Forward Rectified Current at @ Ta =40°C	$I_{F(AV)}$	1.0	A
Peak Forward Surge Current 8.3ms single half sine-wave superimposed on rated load (JEDEC method)	I_{FSM}	30.0	A
Maximum Forward Voltage at 0.4A DC	V_F	0.9	V
Maximum DC Reverse Current Ta =25°C at rated DC blocking voltage Ta =100°C	I_R	5.0 100.0	uA
Typical Junction To Ambient (Note 3)	$R_{(JA)}$	130	°C/W
Typical Junction To Case (Note 3)	$R_{(JC)}$	40	°C/W
Storage Temperature	T_{STG}	-55 to +150	°C
Operation Junction Temperature	T_J	-55 to +150	°C

Note:

1. Measured at 1.0 MHz and applied reverse voltage of 4.0Vdc
2. Thermal Resistance from Junction to lead mounted on P.C.B with 0.5×0.5”(13×13mm) copper pads.



FIG.1 - TYPICAL INSTANTANEOUS FORWARD CHARACTERISTICS

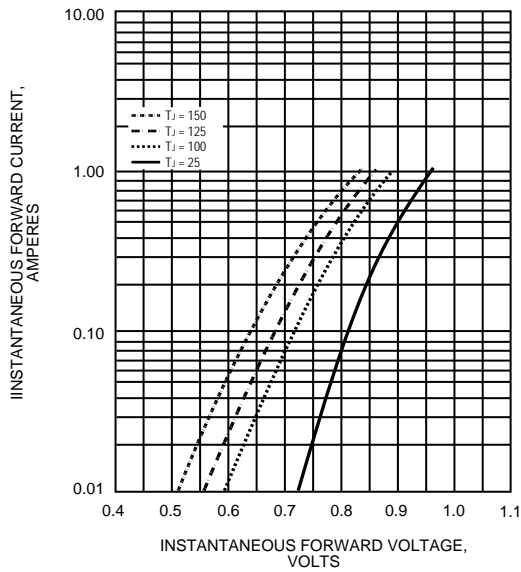


FIG.2 - MAXIMUM NON-REPETITIVE PEAK FORWARD SURGE CURRENT

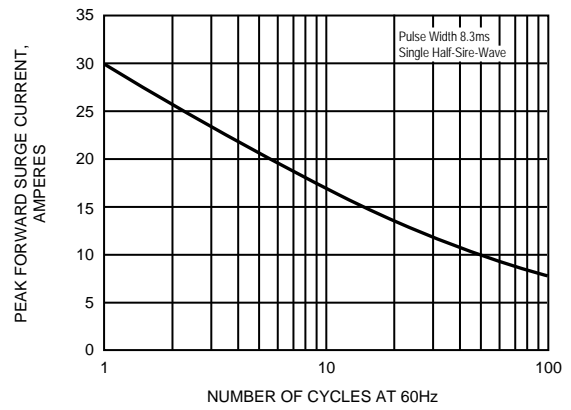


FIG.3 - FORWARD CURRENT DERATING CURVE

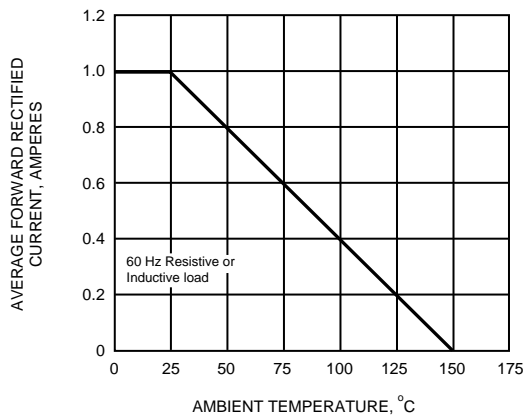


FIG.4 - TYPICAL REVERSE CHARACTERISTICS

