



Preliminary
MBCN10MH

● **FEATURES**

- * Halogen-free type
- * Glass passivated chip junctions
- * Compliance to RoHS product
- * Lead less chip form, no lead damage
- * Low power loss, High efficiency
- * High current capability
- * Plastic package has Underwriters Laboratory Flammability Classification 94V-0

● **APPLICATION**

- * AC/DC Power Supply
- * Communication Equipment

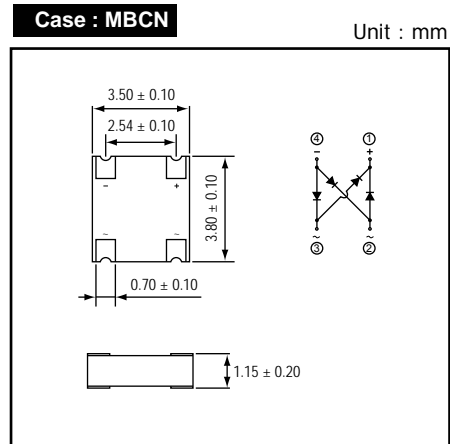
● **MECHANICAL DATA**

Case : Packed with FRP substrate and epoxy underfilled
Terminals : Pure Tin plated (Lead-Free), solderable per MIL-STD-750, Method 2026.
Polarity : Laser marking symbols

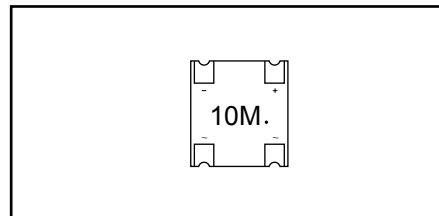
● **PACKING**

- * 5,000 pieces per 13" (330mm ± 2mm) reel
- * 2 reels per box
- * 5 boxes per carton

● **OUTLINE DIMENSIONS**



● **MARKING**



Absolute Maximum Ratings (Ta = 25 °C)

ITEM	Symbol	Conditions	Rating	Unit
Repetitive peak reverse voltage	VRRM		1000	V
Average forward current	IF(AV)		1.0	A
Peak forward surge current	IFSM	8.3ms single half sine-wave	25	A
Operating junction and storage temperature Range	Tj,TSTG		-55 to +150	°C

Electrical characteristics (Ta = 25 °C)

ITEM	Symbol	Conditions	Min.	Typ.	Max.	Unit
Forward voltage	VF	IF = 0.8A	-	0.96	1.0	V
Repetitive peak reverse current	IRRM	VR = Max. VRRM , Ta = 25 °C	-	0.08	5	uA
Current squared time	I ² t	t < 8.3ms , Ta = 25 °C	-	2.59	-	A ² s
Typical thermal resistance per leg	Rth(JA)	Junction to ambient (Note)	-	130	-	°C/W
	Rth(JC)	Junction to case (Note)	-	40	-	°C/W

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



FIG.1 - FORWARD CURRENT DERATING CURVE

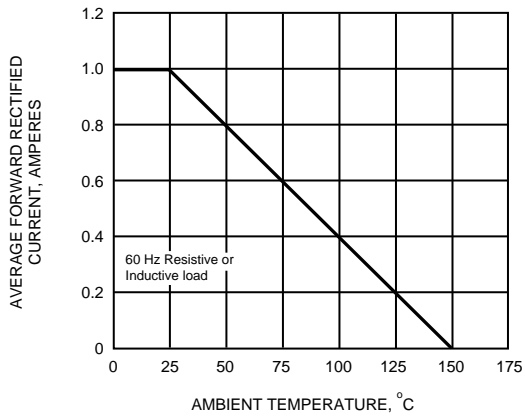


FIG.2 - MAXIMUM NON-REPETITIVE PEAK FORWARD SURGE CURRENT

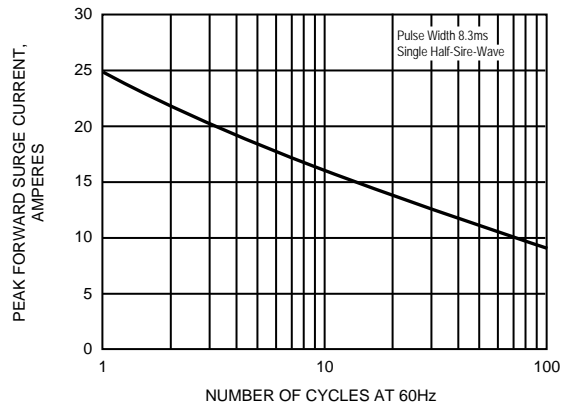


FIG.3 - TYPICAL INSTANTANEOUS FORWARD CHARACTERISTICS

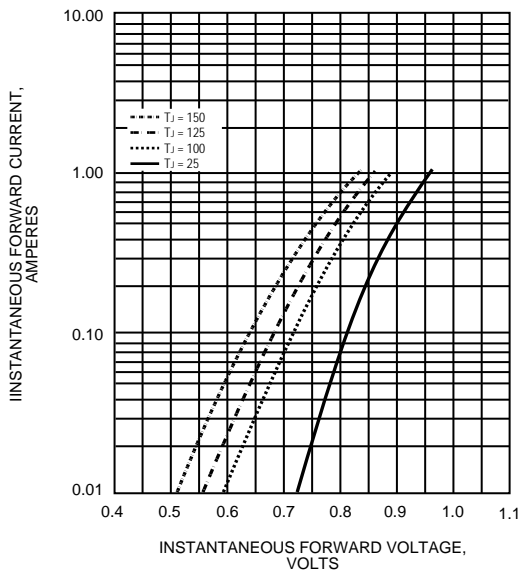


FIG.4 - TYPICAL REVERSE CHARACTERISTICS

