

Preliminary

MBC08JH THRU MBC08MH

FEATURES

- * Halogen-free type
- * Internal structure with GPRC (glass passivated rectifier chip) inside
- * 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

Weight : 0.07 gram

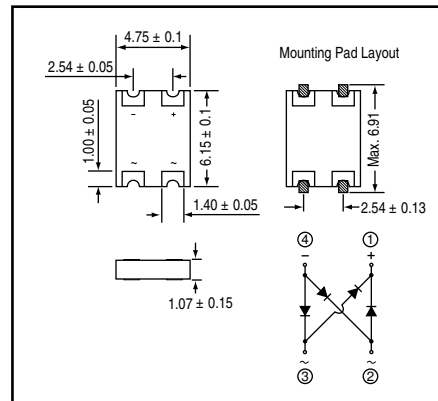
PACKING

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

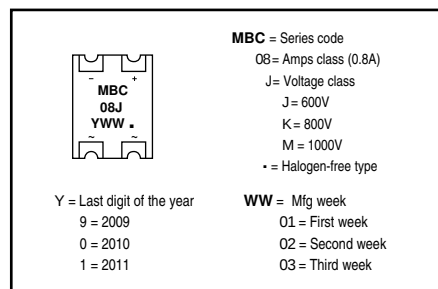
OUTLINE DIMENSIONS

Case : MBC

Unit : mm



MARKING



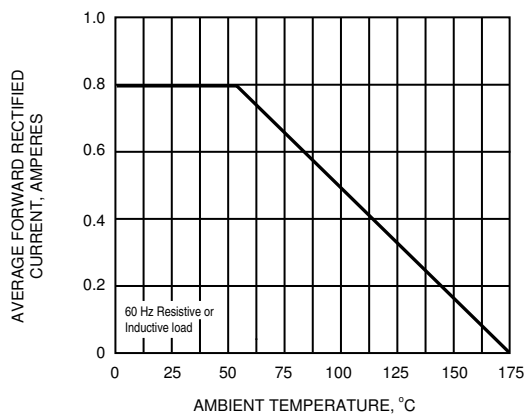
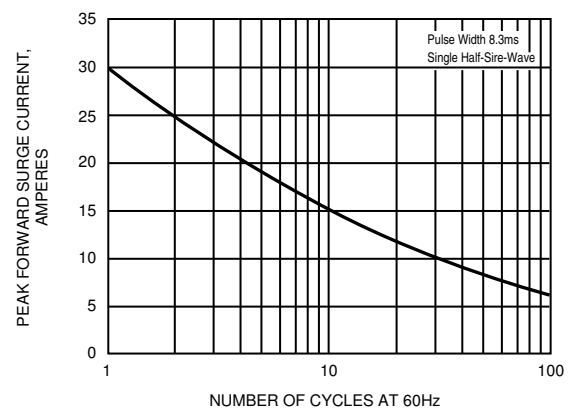
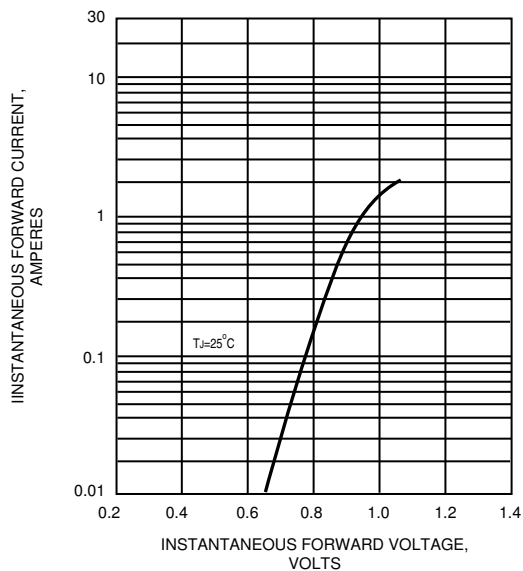
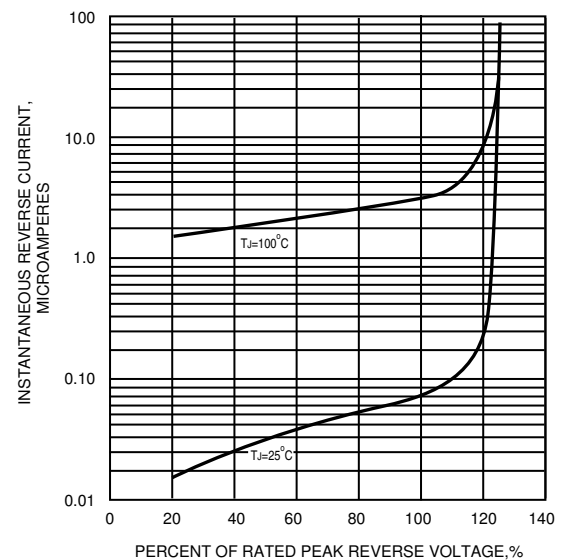
Absolute Maximum Ratings (Ta = 25 °C)

ITEM	Symbol	Conditions	Rating			Unit
			MBC08JH	MBC08KH	MBC08MH	
Repetitive peak reverse voltage	VRRM		600	800	1000	V
Average forward current	IF(AV)		0.8			A
Peak forward surge current	IFSM	8.3ms single half sine-wave	30			A
Operating junction and storage temperature Range	Tj,TSTG		-55 to +175			°C

Electrical characteristics (Ta = 25 °C)

ITEM	Symbol	Conditions	Min.	Typ.	Max.	Unit
Forward voltage	VF	IF = 0.4A IF = 0.8A	- -	0.87 0.92	0.90 0.95	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
Junction capacitance	Cj	VR = 4V, f = 1.0 MHz	-	25	-	pF
Thermal resistance	Rth(JA)	Junction to ambient (NOTE)	-	110	-	°C/W
	Rth(JL)	Junction to lead (NOTE)	-	15	-	

NOTES : Thermal resistance, junction to ambient, measured on PC board with 5.0 x 5.0mm (0.03mm thick) land areas.

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
