

Preliminary
WMBC10JH THRU WMBC10MH
● 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

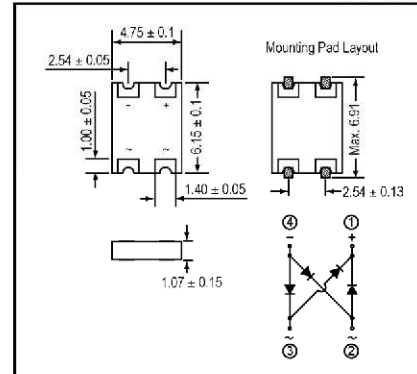
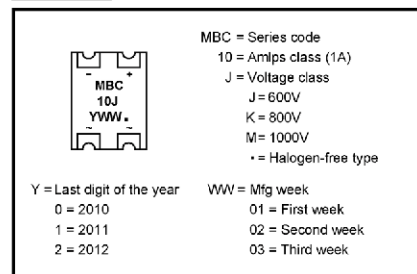
● PACKING

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

● OUTLINE DIMENSIONS

Case : MBC

Unit : mm

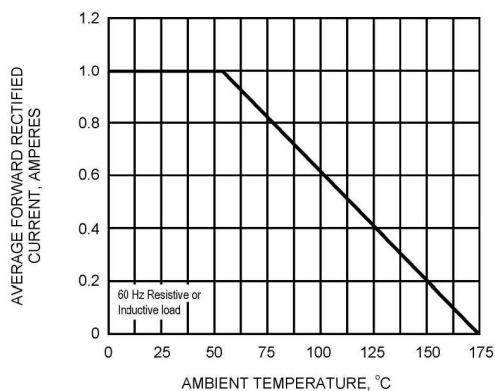
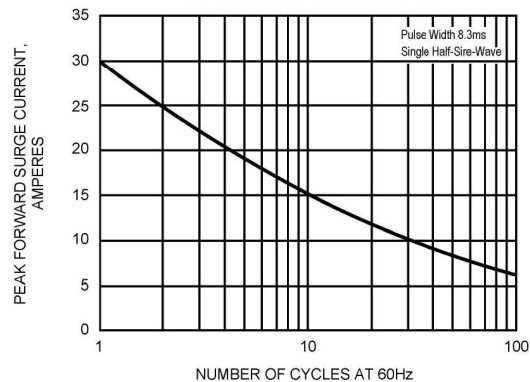
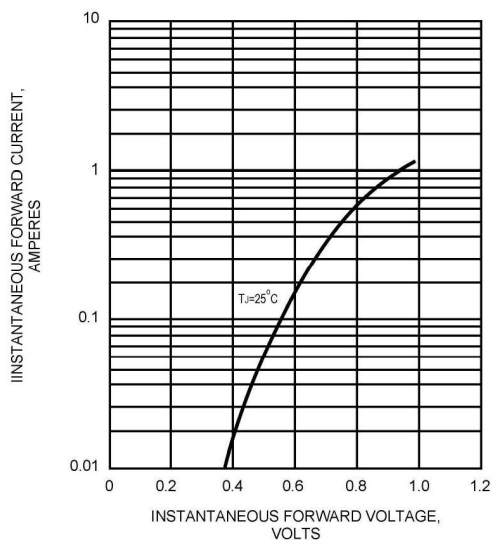
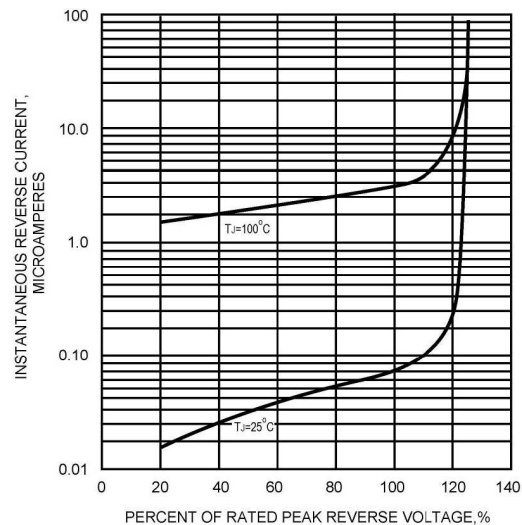
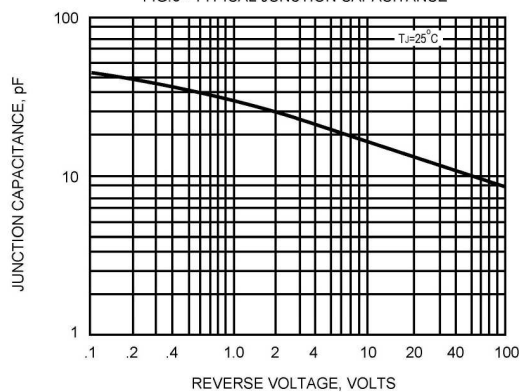

● MARKING

Absolute Maximum Ratings (Ta = 25 °C)

ITEM	Symbol	Conditions	Rating			Unit
			WMBC10JH	WMBC10KH	WMBC10MH	
Repetitive peak reverse voltage	VRRM		600	800	1000	V
Average forward current	IF(AV)		1.0			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 = 1.0A	-	0.95	1.00	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	-	3.7	-	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


MaxMEGA
 DISTRIBUTED BY: MAXMEGA ELECTRONICS PTE LTD
 63, HILLVIEW AVE #09-19
 LAM SOON INDUSTRIAL BUILDING
 SINGAPORE 669569
 TEL: +65 6769 1118
 FAX: +65 6769 2221
 EMAIL: maxsales@maxmega.com
 WEBSITE: www.maxmega.com