

WSMBC204H THRU WSMBC210H
FEATURES

- * Halogen-free type
- * 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

- * Suitable for battery - powered circuits
- * 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

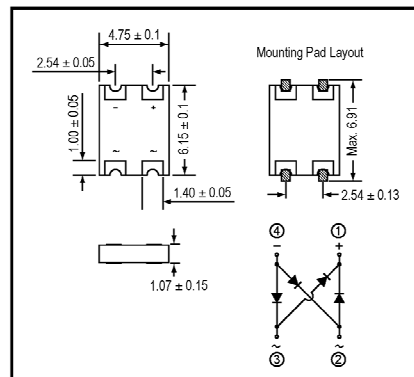
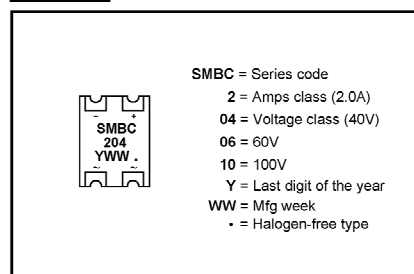
Weight : 0.07 gram

PACKING

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

OUTLINE DIMENSIONS
Case : MBC

Unit : mm

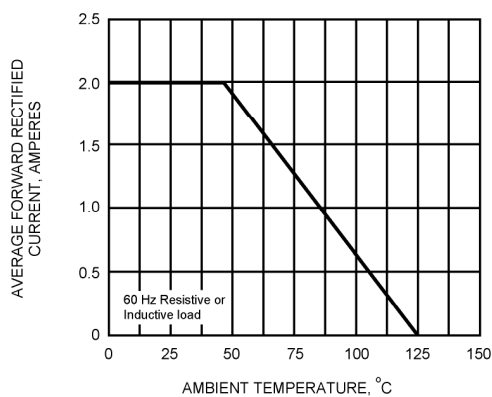
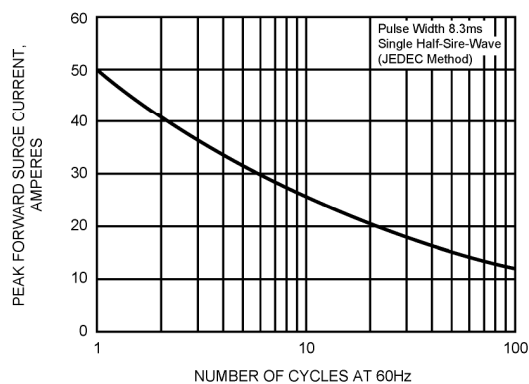
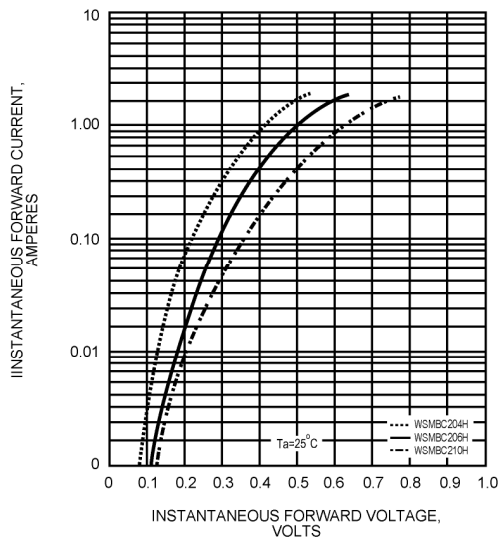
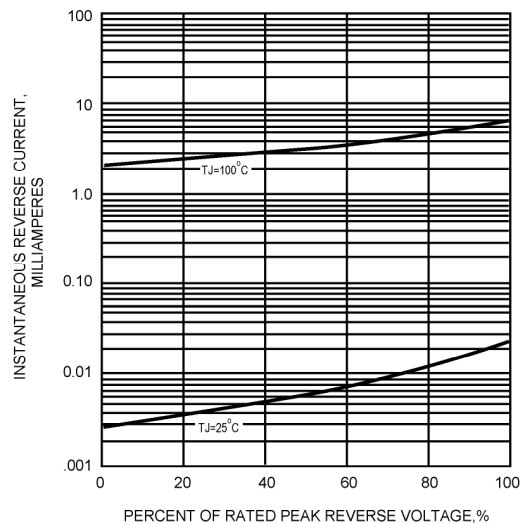

MARKING

Absolute Maximum Ratings (Ta = 25 °C)

ITEM	Symbol	Conditions	Rating			Unit
			WSMBC204H	WSMBC206H	WSMBC210H	
Repetitive peak reverse voltage	VRRM		40	60	100	V
Average forward current	IF(AV)		2.0			A
Peak forward surge current	IFSM	8.3ms single half sine-wave	50			A
Operating storage temperature Range	TJ,TSTG		-55 to +125			°C

Electrical characteristics (Ta = 25 °C)

ITEM	Symbol	Conditions	Type	Min.	Typ.	Max.	Unit
Forward voltage	VF	IF = 1.0A	WSMBC204H	-	0.41	-	V
		IF = 2.0A		-	0.49	0.50	
		IF = 1.0A	WSMBC206H	-	0.50	-	V
		IF = 2.0A		-	0.60	0.70	
		IF = 1.0A	WSMBC210H	-	0.62	-	V
		IF = 2.0A		-	0.75	0.85	
Repetitive peak reverse current	IRRM	VR = Max. VRRM, Ta = 25 °C		-	0.025	0.20	mA
Junction capacitance	Cj	VR = 4V, f = 1.0 MHz		-	-	250	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 5.0mm² (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

FIG. 5 - TYPICAL JUNCTION CAPACITANCE
