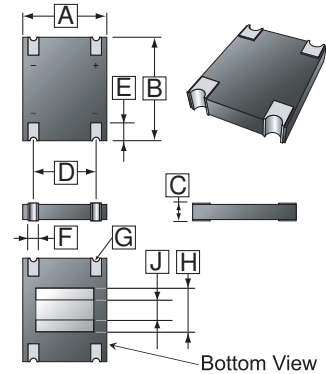


RoHS compliant product
 A suffix of "-C" specifies halogen & lead-free

FEATURES

- Internal structure with GPRC (Glass passivated rectifier chip) inside
- Leadless chip form, no lead damage
- Lead free solder joint, no wire bond & lead frame
- Low power loss, high efficiency
- High current capability
- Plastic package has underwriter laboratory flammability Classification 94V-0

Case: MBCS



APPLICATION

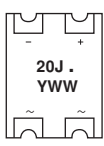
- AC/DC power supply
- Communication equipment

MECHANICAL DATA

- Case : Packed with FRP substrate and epoxy under-filled
- Terminals : Pure tin plated(Lead free)
Solderable per MIL-STD-750, Method 2026
- Polarity: Laser cathode band marking
- Weight: 0.23 grams

REF.	Millimeter		REF.	Millimeter	
	Min.	Max.		Min.	Max.
A	8.00	8.20	F	1.05	1.35
B	10.40	10.60	G	R 0.40	
C	0.95	1.25	H	4.00 REF.	
D	5.00 REF.		J	2.00 REF.	
E	1.13	1.43			

MARKING



20= Amps class (2.0A)
 =JVoltage class
 J = 0.0V
 K = 0.0V
 M = 0.0V
 • halogen-free type

Y=Last digit of the WW= Mfg week
 7=2007 01= First week
 8=2008 02= Second week
 9= 2009 03= Third week

ABSOLUTE MAXIMUM RATINGS (T_A=25°C unless otherwise noted)

PARAMETER	SYMBOL	MB205	MB206	MB207	UNIT
Repetitive Peak Reverse Voltage	V _{RRM}	600	800	1000	V
Average Forward Current	I _{F(AV)}	2.0			A
Peak Forward Surge Current, 8.3ms Single Sine-wave	I _{FSM}	50			A
Operating & Storage Temperature Range	T _J , T _{STG}	-55~175			°C

ELECTRICAL CHARACTERISTICS (T_A=25°C unless otherwise noted)

PARAMETER	SYMBOL	TYP.	MAX.	UNIT	TEST CONDITION
Forward Voltage	V _F	0.86	0.9	V	I _F =1.0A
		0.9	0.95	V	I _F =2.0A
Repetitive Peak Reverse Current	I _{RRM}	0.08	5	µA	V _R =Max. V _{RRM}
Current Squared Time	I ² t	10.38	-	A ² s	t<8.3ms
Junction Capacitance	C _J	45	-	pF	V _R =4V, f=1.0MHz
Thermal Resistance	R _{θJA}	110	-	°C/W	Junction to Ambient (Note)
	R _{θJL}	15	-		Junction to Lead (Note)

Note: Thermal resistance, junction to ambient, measured on PC board with 5.0mm² (0.03mm thick) land areas.

RATINGS AND CHARACTERISTIC CURVES

FIG.1 - FORWARD CURRENT DERATING CURVE

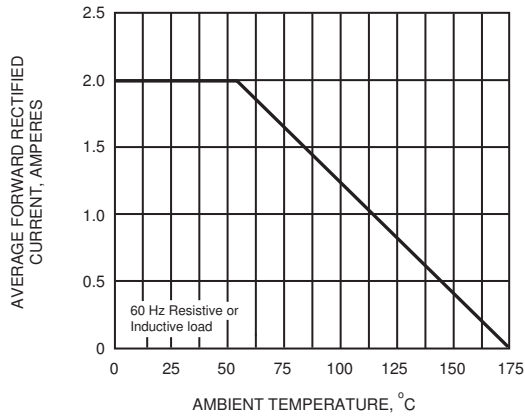


FIG.2 - MAXIMUM NON-REPETITIVE PEAK FORWARD SURGE CURRENT

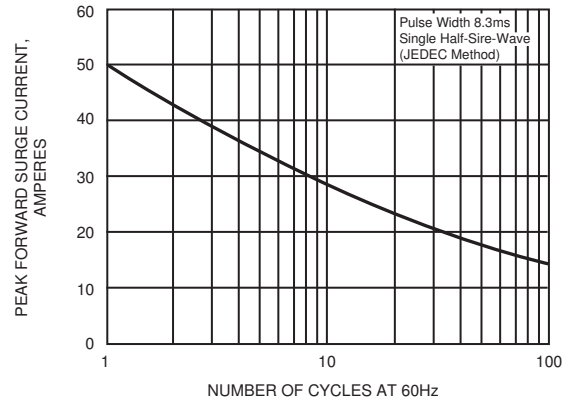


FIG.3 - TYPICAL INSTANTANEOUS FORWARD CHARACTERISTICS

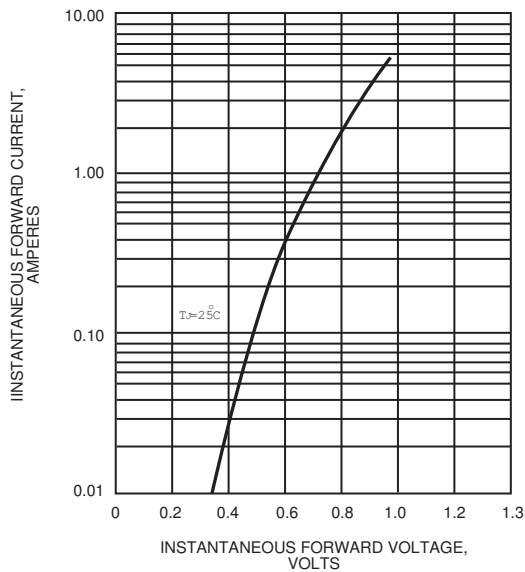


FIG.4 - TYPICAL REVERSE CHARACTERISTICS PER BRIDGE ELEMENT

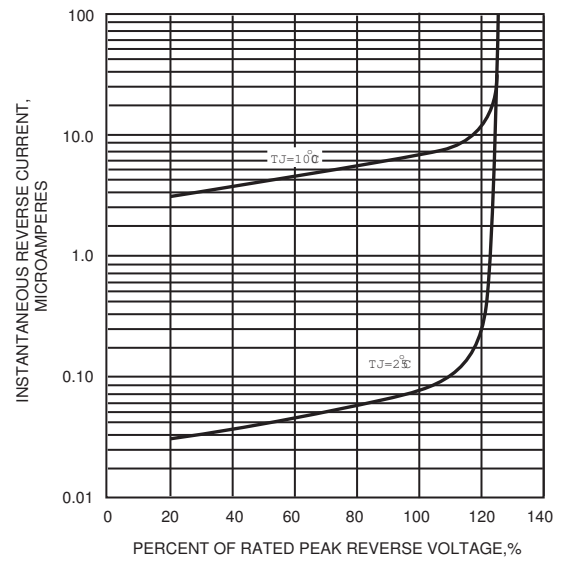


FIG.5 - TYPICAL JUNCTION CAPACITANCE

