Elektronische Bauelemente

MB240F-C~MB2200F-C

40V~200V

2Amp Surface Mount Bridge Rectifiers

RoHS Compliant Product
A suffix of "-C" specifies halogen & lead-free

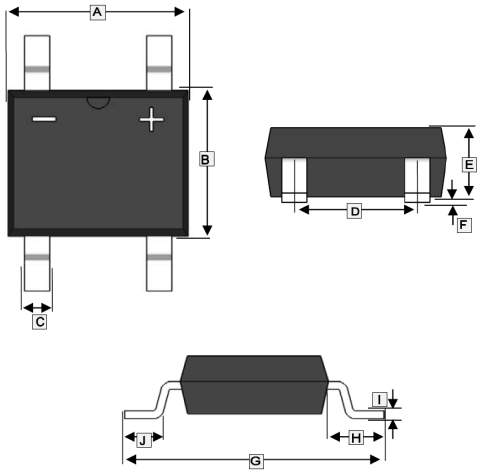
FEATURES

- High Surge Current Capability
- Designed for Surface Mount Application

MECHANICAL DATA

- Case: MBF
- Terminals: Solderable per MIL-STD-750, Method 2026

MBF



	Millimeter		REF.	Millimeter	
	Min.	Max.		Min.	Max.
A	4.5	5.0	F	0.2 TYP.	
B	3.6	4.1	G	6.4	7.0
C	0.5	0.8	H	1.3	1.7
D	2.3	2.7	I	0.15	0.22
E	1.2	1.6	J	0.5	1.1

MARKING

Part Number	Marking	Part Number	Marking
MB240F-C	MB24F	MB2100F-C	MB210F
MB260F-C	MB26F	MB2200F-C	MB220F

PACKAGE INFORMATION

Package	MPQ	Leader Size
MBF	5K	13 inch

ORDER INFORMATION

Part Number	Type
MB240F-C~MB2200F-C	Lead (Pb)-free and Halogen-free

MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

(Rating 25°C ambient temperature unless otherwise specified. Single phase half wave 60Hz, resistive or inductive load, For capacitive load current derate current by 20%.)

Parameter		Symbol	Part Number				Unit
			MB240F-C	MB260F-C	MB2100F-C	MB2200F-C	
Maximum Repetitive Peak Reverse Voltage		V_{RRM}	40	60	100	200	V
Maximum RMS Voltage		V_{RMS}	28	42	70	140	V
Maximum DC Blocking Voltage		V_{DC}	40	60	100	200	V
Maximum Average Forward Current @T_C=100°C		$I_{F(AV)}$	2				A
Peak Forward Surge Current @8.3ms Single Half Sine-Wave Superimposed on Rated Load (JEDEC Method)		I_{FSM}	50		40		A
Maximum Instantaneous Forward Voltage @I_F=2A		V_F	0.55	0.7	0.85		V
Maximum DC Reverse Current @Rated DC Blocking Voltage	T_A=25°C	I_R	0.5		0.3		mA
	T_A=100°C		10		5		
Typical Junction Capacitance [1]		C_J	220	80			pF
Thermal Resistance Junction-Ambient [2]		$R_{\theta JA}$	75				°C/W
Operating and Storage Temperature Range		T_J, T_{STG}	150, -55~150				°C

Notes:

1. Measured at 1MHz and applied reverse voltage of 4V D.C.
2. Mounted on glass epoxy PC board with 4×1.5"×1.5"（3.81×3.81 cm）copper pad.

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RATINGS AND CHARACTERISTIC CURVES

Fig.1 Forward Current Derating Curve

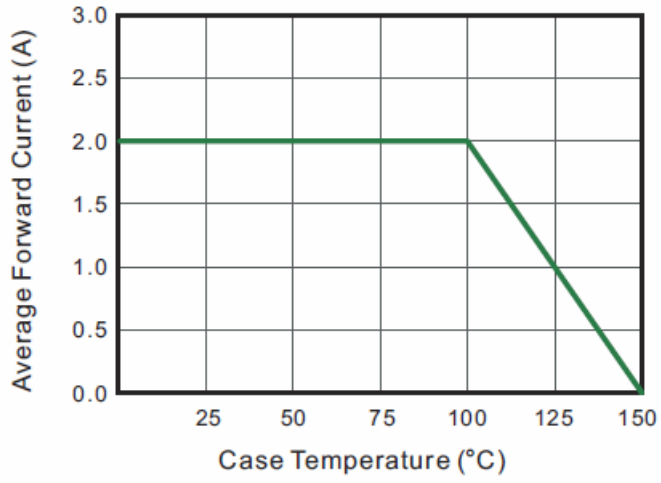

Fig.2 Typical Reverse Characteristics

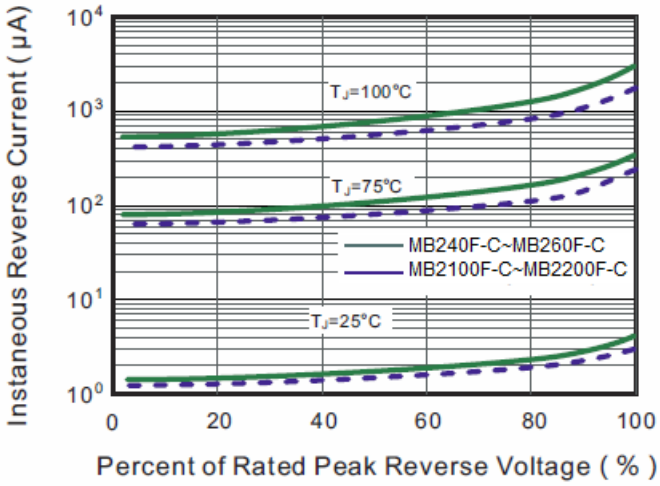

Fig.3 Typical Forward Characteristic

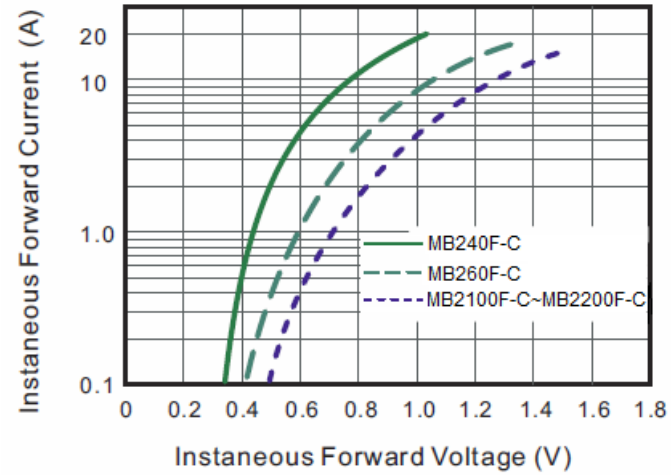

Fig.4 Typical Junction Capacitance

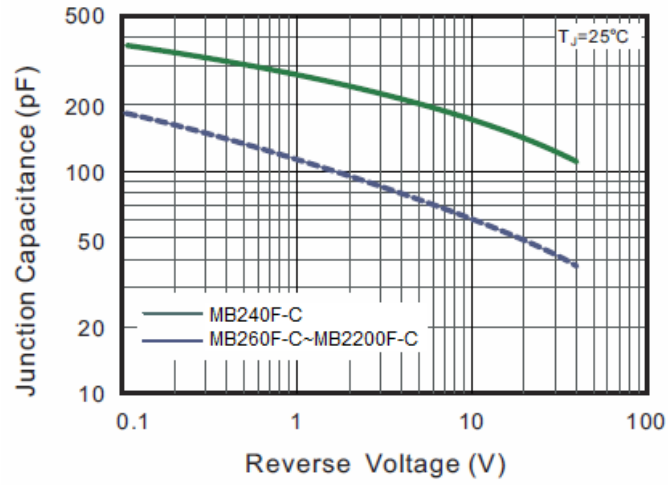

Fig.5 Maximum Non-Repetitive Peak Forward Surage Current

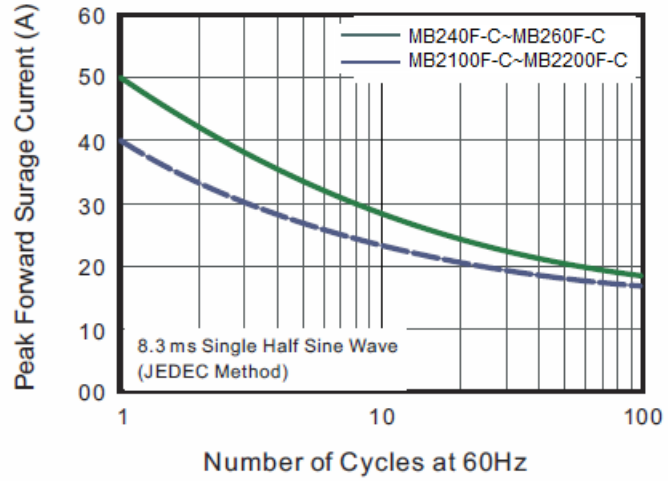

Fig.6- Typical Transient Thermal Impedance