

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

FEATURES

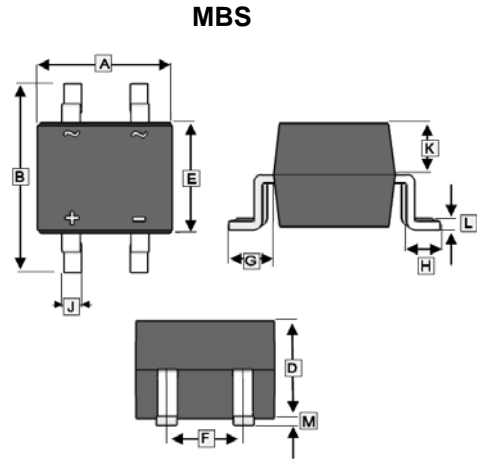
- Ideal for printed circuit board
- Lead tin plated copper
- Reliable low cost construction utilizing, molded plastic technique results in inexpensive product

MECHANICAL DATA

- Polarity: Symbol molded on body
- Weight: 0.0044 ounces, 0.125 grams
- Mounting position :Any

PACKAGE INFORMATION

Package	MPQ	Leader Size
MBS	3K	13 inch



REF.	Millimeter		REF.	Millimeter	
	Min.	Max.		Min.	Max.
A	4.50	4.90	H	0.70	1.10
B		7.00	J	0.50	0.80
D	2.30	2.70	K	0.90	1.30
E	3.80	4.20	L	0.15	0.35
F	2.30	2.70	M	0.20	REF.
G	1.30	1.70			

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, de-rate current by 20%.)

Parameter	Symbol	Part Number					Unit
		RH101	RH102	RH103	RH104	RH105	
Maximum Recurrent Peak Reverse Voltage	V_{RRM}	100	200	400	600	800	V
Maximum RMS Bridge Input Voltage	V_{RMS}	70	140	280	420	560	V
Maximum DC Blocking Voltage	V_{DC}	100	200	400	600	800	V
Maximum Average Forward Rectified Current @ $T_A=40^\circ C$ ¹	$I_{(AV)}$	0.8					A
Peak Forward Surge Current 8.3 ms Single Half Sine-Wave Super Imposed on Rated Load (JEDEC Method)	I_{FSM}	40					A
Maximum Forward Voltage @ 0.8A	V_F	1.15					V
Maximum DC Reverse Current at Rated DC Blocking Voltage	$T_A=25^\circ C$	5					μA
	$T_A=125^\circ C$	500					
I^2t Rating for Fusing ($t < 8.3ms$)	I_2t	3.7					A^2s
Maximum Reverse Recovery Time	T_{RR}	150		250	500	nS	
Typical Junction Capacitance Per Element ²	C_J	13					pF
Typical Thermal Resistance ³	$R_{\theta JC}$	75					$^\circ C / W$
Operating and Storage temperature range	T_J, T_{STG}	-55~150					$^\circ C$

Note:

1. Mounted on P.C. board.
2. Measured at 1.0MHz and applied reverse voltage of 4.0V DC.
3. Thermal resistance junction to ambient.

RATINGS AND CHARACTERISTIC CURVES

FIG.1-FORWARD CURRENT DERATING CURVE

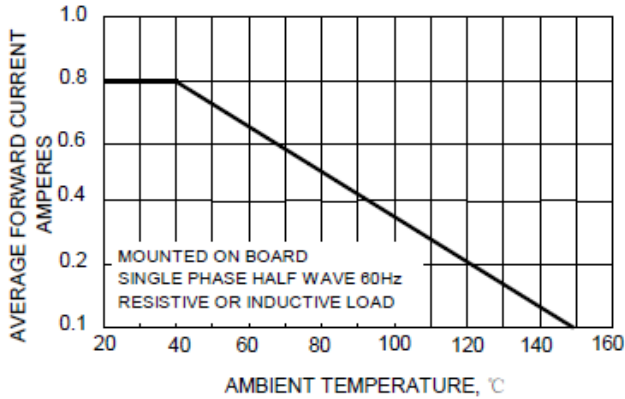


FIG.2-MAXIMUM NON-REPETITIVE SURGE CURRENT

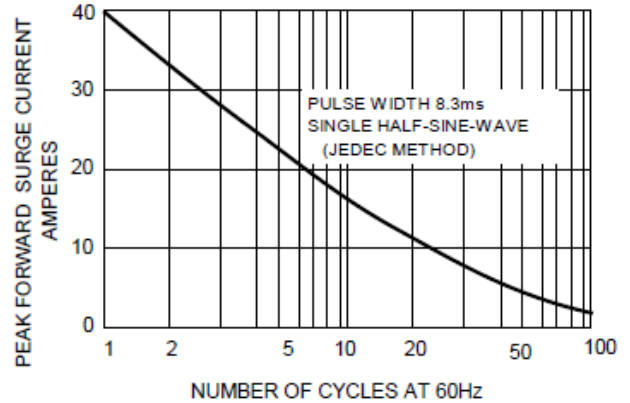


FIG.3-TYPICAL REVERSE CHARACTERISTICS

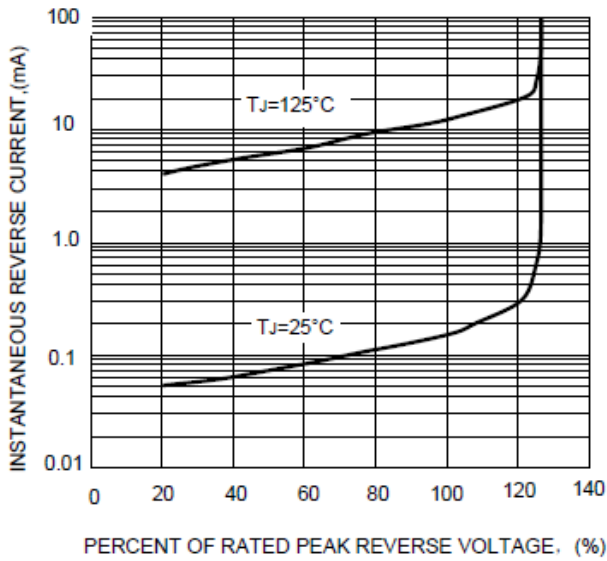


FIG.4-TYPICAL FORWARD CHARACTERISTICS

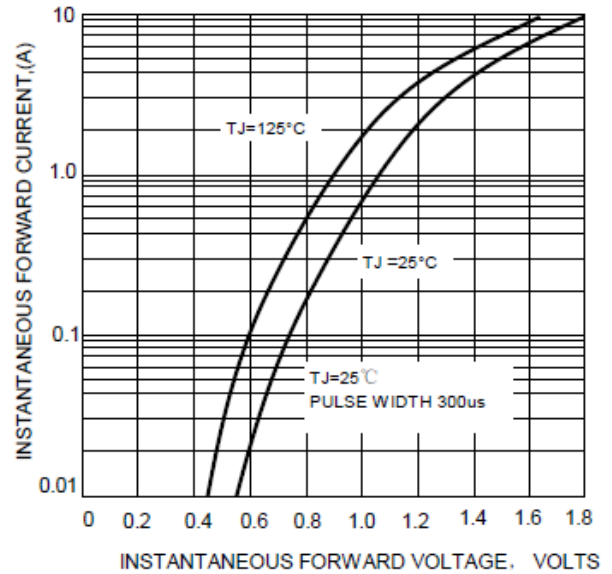


FIG.5-TYPICAL JUNCTION CAPACITANCE

