Elektronische Bauelemente

RH101 ~ RH105

Voltage 100V ~ 800V

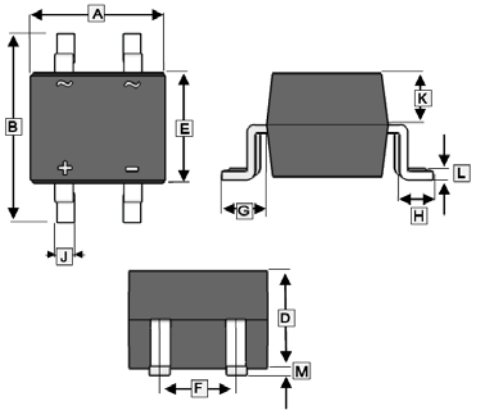
0.8 Amp Silicon Bridge Rectifiers

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

MBS



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			

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

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°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°C	I_R	5					μA
	T_A=125°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					°C / W
Operating and Storage temperature range		T_J,T_{STG}	-55~150					°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.

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RATINGS AND CHARACTERISTIC CURVES

FIG.1-FORWARD CURRENT DERATING CURVE

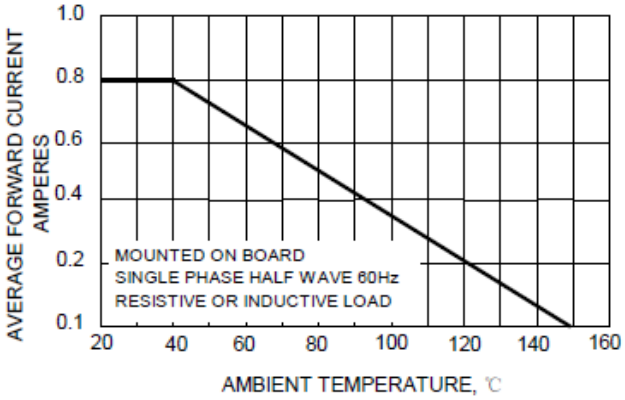

FIG.2-MAXIMUM NON-REPETITVE SURGE CURRENT

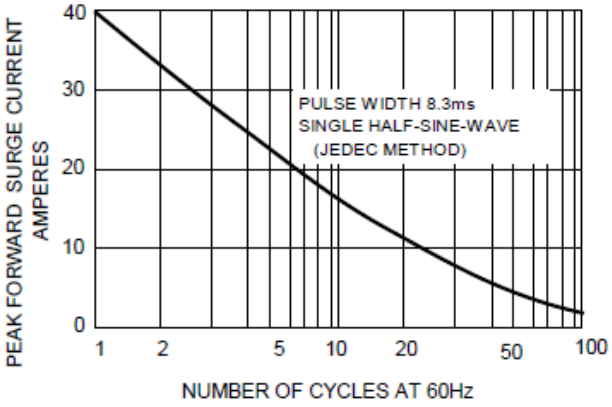

FIG.3-TYPICAL REVERSE CHARACTERISTICS

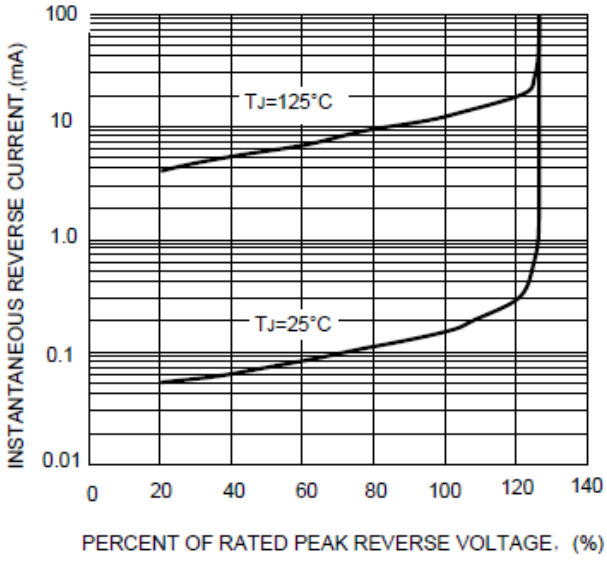

FIG.4-TYPICAL FORWARD CHARACTERISTICS

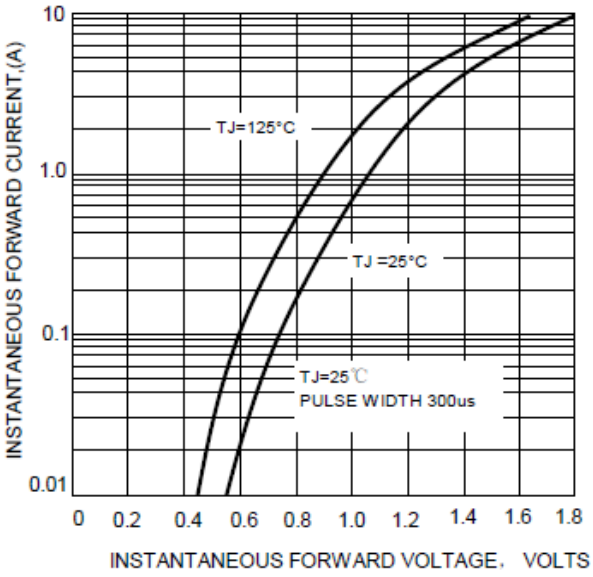

FIG.5-TYPICAL JUNCTION CAPACITANCE