Elektronische Bauelemente

DB101 ~ DB107

VOLTAGE 50 V ~ 1000 V

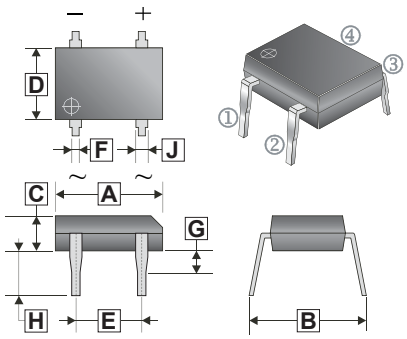
1.0 Amp Surface Mount Bridge Rectifiers

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

FEATURES

- Low forward voltage drop, high current capability
- Rating to 1000V PRV
- Ideal for printed circuit board
- Reliable low cost construction utilizing molded plastic technique results in inexpensive products
- Lead tin Pb / Sn copper
- The plastic material has UL flammability classification 94V-0

DB-1



REF.	Millimeter		REF.	Millimeter	
	Min.	Max.		Min.	Max.
A	8.20	9.30	F	0.55 REF.	
B	7.60	8.90	G	1.50 REF.	
C	2.90	3.40	H	3.90	4.90
D	6.20	6.50	J	-	-
E	5.00	5.20			

MECHANICAL DATA

- Polarity: As marked on Body
- Weight:0.02 ounces, 0.38 grams
- Mounting position: Any

MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Rating at 25℃ ambient temperature unless otherwise specified.
Single phase, half wave, 60Hz, resistive or inductive load.
For capacitive load, de-rate current by 20%.

PARAMETERS	SYMBOL	DB 101	DB 102	DB 103	DB 104	DB 105	DB 106	DB 107	UNIT
Peak Repetitive Peak Reverse Voltage Working Peak Reverse Voltage DC Blocking Voltage	V_{RRM} V_{RMS} V_{DC}	50 35 50	100 70 100	200 140 200	400 280 400	600 420 600	800 560 800	1000 700 1000	V
Maximum Average Forward Rectified Current @T_A=40℃	$I_{(AV)}$	1.0							A
Peak Forward Surge Current 8.3 ms Single Half Sine-Wave Super Imposed on Rated Load (JEDEC Method)	I_{FSM}	50							A
Maximum Forward Voltage at 1.5 A DC	V_F	1.1							V
Maximum DC Reverse Current @T_J=25℃ at Rated DC Blocking Voltage @T_J=125℃	I_R	10 500							uA
I^2t Rating for Fusing (t<8.3ms)	I^2t	10.4							A^2s
Typical Junction Capacitance Per Element (Note1)	C_J	25							pF
Typical Thermal Resistance (Note2)	$R_{\theta JA}$	40							℃/W
Operating and Storage temperature range	T_J, T_{STG}	-55 ~ 150							℃

Note: 1. Measured at 1.0 MHz and applied reverse voltage of 4.0 V DC
2. Thermal resistance from junction to ambient mounted on P.C.B. with 0.5*0.5"(13*13mm) copper pads.

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RATINGS AND CHARACTERISTIC CURVES

FIG.1-FORWARD CURRENT DERATING CURVE

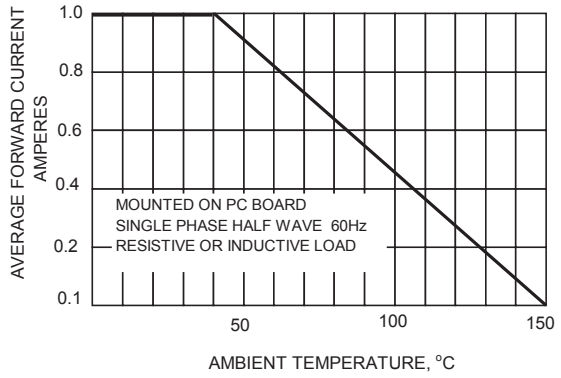

FIG.2-MXIMUM NON-REPETITIVE SURGE CURRENT

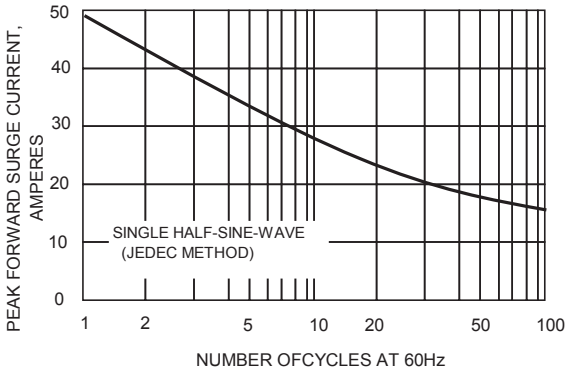

FIG.3-TYPICAL JUNCTION CAPACITANCE

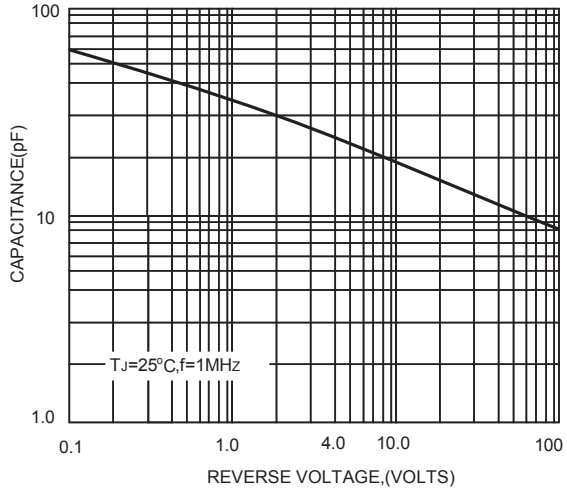

FIG.4-TYPICAL FORWARD CHARACTERISTICS

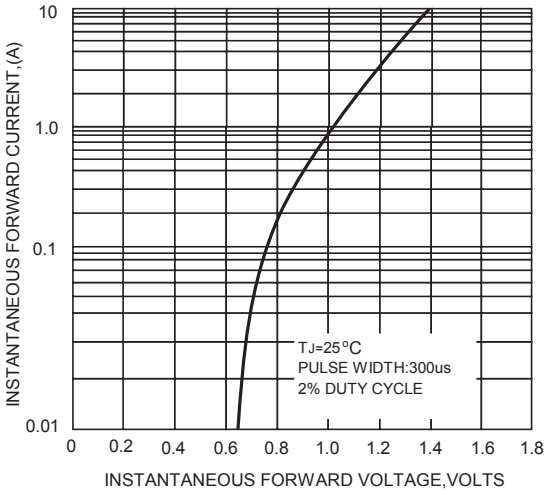

FIG.5-TYPICAL REVERSE CHARACTERISTICS