

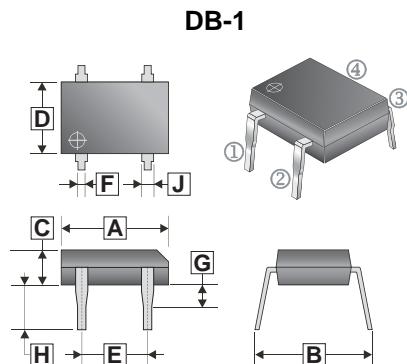
RoHS Compliant Product  
A suffix of "-C" specifies halogen & lead-free

## 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

## MECHANICAL DATA

- Polarity: As marked on Body
- Mounting position: Any



REF.	Millimeter		REF.	Millimeter	
	Min.	Max.		Min.	Max.
A	8.00	9.30	F	0.55	REF.
B	7.60	8.90	G	1.50	REF.
C	2.90	3.40	H	3.80	4.70
D	6.20	6.50	J	-	-
E	5.00	5.20			

## MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

(Rating at 25°C 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	V <sub>RRM</sub>	50	100	200	400	600	800	1000	V
Working Peak Reverse Voltage	V <sub>RMS</sub>	35	70	140	280	420	560	700	
DC Blocking Voltage	V <sub>DC</sub>	50	100	200	400	600	800	1000	
Maximum Average Forward Rectified Current @T <sub>A</sub> =40°C	I <sub>(AV)</sub>	1						A	
Peak Forward Surge Current 8.3 ms Single Half Sine-Wave Super Imposed on Rated Load (JEDEC Method)	I <sub>FSM</sub>	50						A	
Maximum Forward Voltage at 1A DC	V <sub>F</sub>	1.1						V	
Maximum DC Reverse Current at Rated DC Blocking Voltage	T <sub>J</sub> =25°C	I <sub>R</sub>	10						uA
	T <sub>J</sub> =125°C		500						
I <sup>2</sup> t Rating for Fusing (t<8.3ms)	I <sup>2</sup> t	10						A <sup>2</sup> s	
Typical Junction Capacitance Per Element (Note1)	C <sub>J</sub>	25						pF	
Typical Thermal Resistance (Note2)	R <sub>θJA</sub>	40						°C/W	
Operating and Storage temperature range	T <sub>J</sub> , T <sub>STG</sub>	-55 ~ 150						°C	

Note: 1. Measured at 1.0 MHz and applied reverse voltage of 4.0 V DC  
2. Device mounted P.C.B with 0.47x0.47"(12mmx12mm) Copper Pads.

## RATINGS AND CHARACTERISTIC CURVES

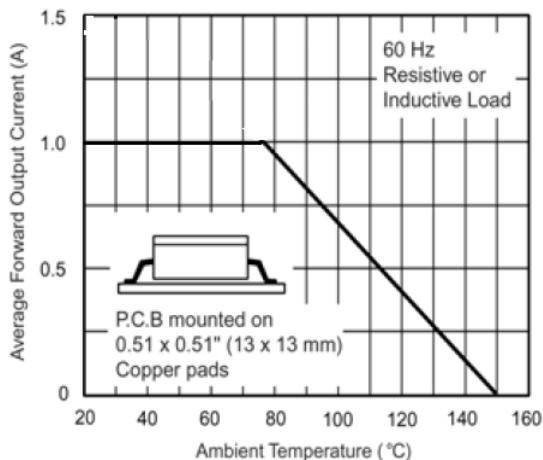


Figure 1. Derating Curve Output Rectified Current

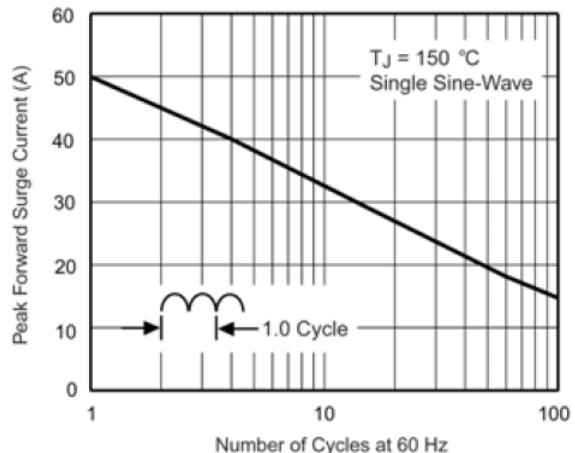


Figure 2. Maximum Non-Repetitive Peak Forward Surge Current Per Leg

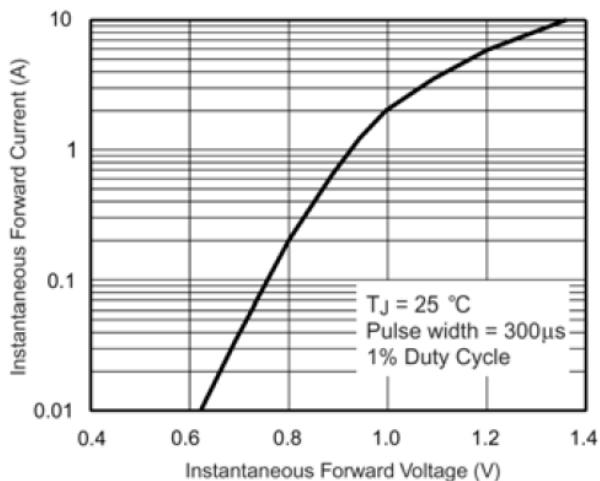


Figure 3. Typical Forward Characteristics Per Leg

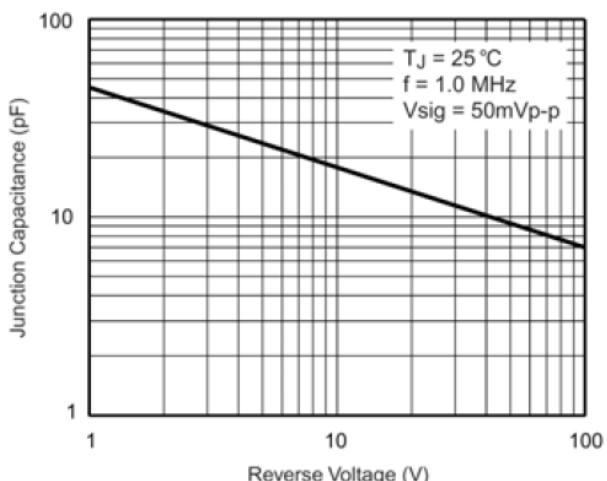


Figure 5. Typical Junction Capacitance Per Leg

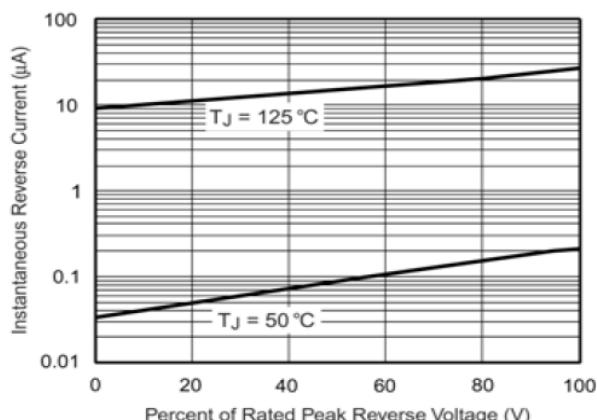


Figure 4. Typical Reverse Leakage Characteristics Per Leg

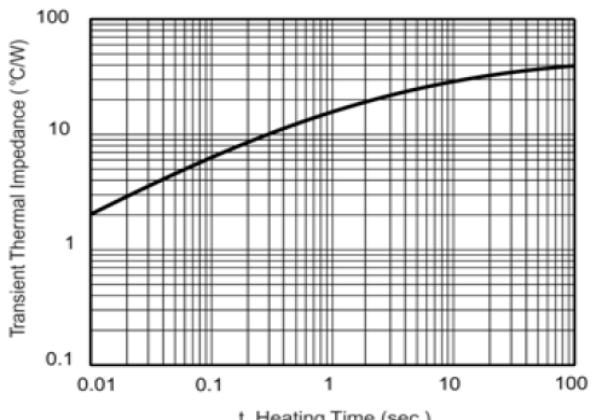


Figure 6. Typical Transient Thermal Impedance