



B40D-B500D

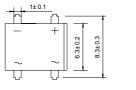
Silicon Bridge Rectifiers

VOLTAGE RANGE: 80 --- 1000 V CURRENT: 1.0 A

DB-1

<u>Features</u>

- ♦ Rating to 1000V PRV
- Surge overload rating to 40 Amperes peak
- Ideal for printed circuit board
- Reliable low cost construction utilizing molded plastic technique results in inexpensive product
- Solderable per MIL-STD-202 method 208
- Glass passivated chip junctions
- Plastic material has UL flammability classification
 94V-O
- Polarity symbols molded on body
- ♦ Weight: 0.016 ounces,0.45 grams







Dimensions in millimeters

MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Ratings at 25 ambient temperature unless otherwise specified.

Single phase, falf wave, 60 Hz, resistive or inductive load. For capacitive load, derate by 20%.

		B40D	B80D	B125D	B250D	B380D	B500D	UNITS
Maximum recurrent peak reverse voltage	V_{RRM}	80	160	250	600	800	1000	V
Maximum RMS voltage	V_{RMS}	56	112	175	420	560	700	V
Maximum DC blocking voltage	V_{DC}	80	160	250	600	800	1000	V
Maximum average forw ard Output current @T _A =25℃	I _{F(AV)}			1.	0			А
Peak forw ard surge current 10ms single half-sine-w ave superimposed on rated load	I _{FSM}			40)			А
Maximum instantaneous forward voltage at 1.0 A	V _F			1.	1			V
Maximum reverse current $@T_J = 25 ^{\circ}C$ at rated DC blocking voltage $@T_J = 125 ^{\circ}C$	I _R			10 0.				μA m A
Operating junction temperature range	TJ	- 55 + 150					$^{\circ}$	
Storage temperature range	T _{STG}	- 55 + 150				$^{\circ}$		

Thermal Characteristics

Typical thermal resistance per leg (Note1)	R _{OJA}	R _{OJA} 66 R _{OJC} 28			
	R _{OJC}				
	R _{OJL}	27			
Operating junction temperature range	T _J	- 55 + 150	°C		
Storage temperature range	T _{STG}	- 55 + 150	$^{\circ}$		



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Ratings AND Charactieristic Curves

FIG.1 - PEAK FORWARD SURGE CURRENT

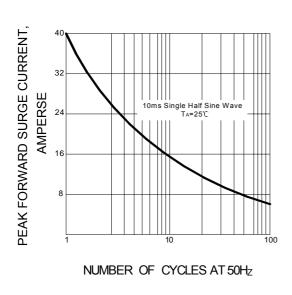
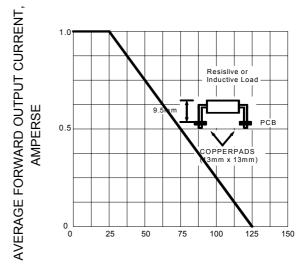


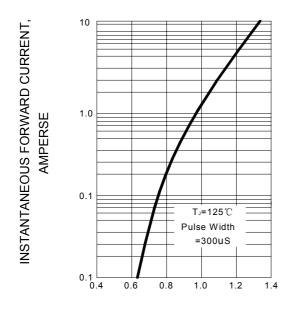
FIG.2 - FORWARD DERATING CURVE



AMBIENT TEMPERATURE, °C

FIG.3 - TYPICAL FORWARD CHARACTERISTIC

FIG.4 - TYPICAL REVERSE CHARACTERISTIC



MICROUS REVERNATION TO THE PROPERTY OF THE PRO

INSTANTANEOUS FORWARD VOLTAGE, VOLTS

PERCENT OF RATED PEAK REVERSE VOLTAGE,%

100