

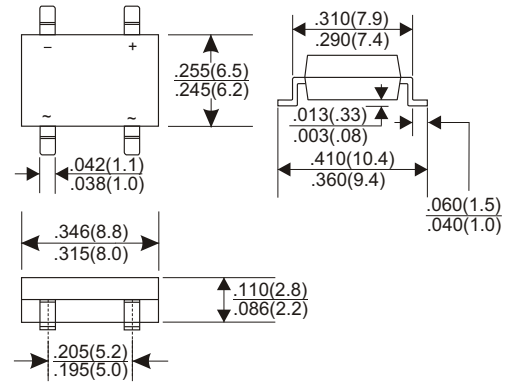
VOLTAGE RANGE 50 to 1000 Volts

CURRENT 1.5 Ampere

DB-1S

## FEATURES

- Ideal for printed circuit board
- Reliable low cost construction utilizing molded plastic technique
- High surge current capability
- Polarity: marked on body
- Mounting position: Any
- Weight: 1.0 grams



Dimensions in inches and (millimeters)

## 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, derate current by 20%.

TYPE NUMBER	SDB157-CN	UNITS
Maximum Recurrent Peak Reverse Voltage	1000	V
Maximum RMS Voltage	700	V
Maximum DC Blocking Voltage	1000	V
Maximum Average Forward Rectified Current .375"(9.5mm) Lead Length at Ta=25°C	1.5	A
Peak Forward Surge Current, 8.3 ms single half sine-wave superimposed on rated load (JEDEC method)	60	A
I <sup>2</sup> t Rating for Fusing (1ms < t < 8.3ms)	15	A <sup>2</sup> S
Maximum Forward Voltage Drop per Bridge Element at 1.5A D.C.	1.0	V
Maximum DC Reverse Current Ta=25°C	10	μA
at Rated DC Blocking Voltage Ta=125°C	500	μA
Operating Temperature Range, Tj	-65 — +150	°C
Storage Temperature Range, Tstg	-65 — +150	°C

## RATING AND CHARACTERISTIC CURVES

FIG.1-TYPICAL FORWARD CURRENT  
DERATING CURVE

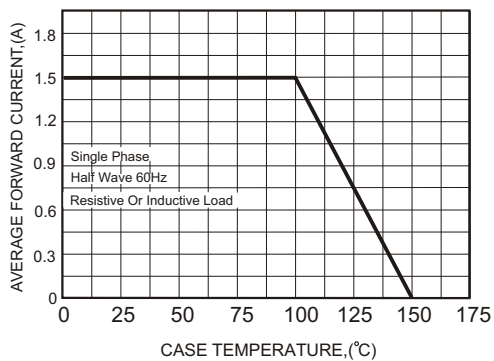


FIG.2-MAXIMUM NON-REPETITIVE FORWARD  
SURGE CURRENT

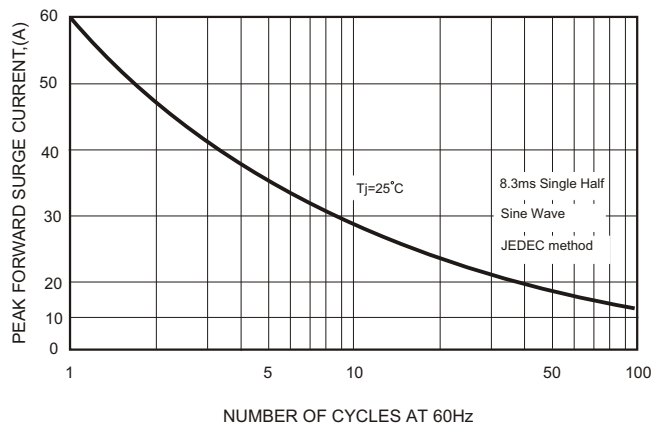


FIG.3-TYPICAL FORWARD  
CHARACTERISTICS

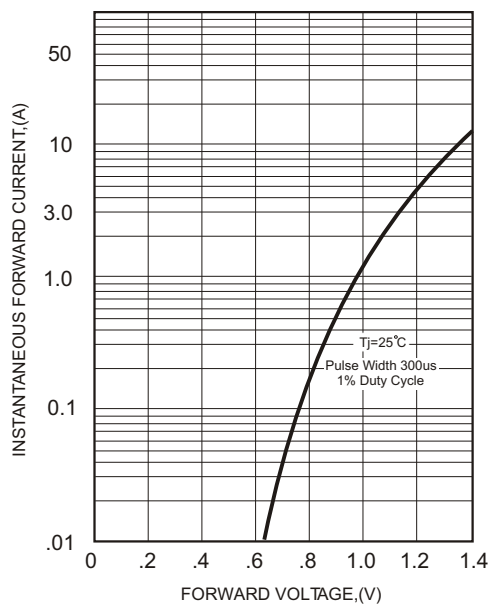
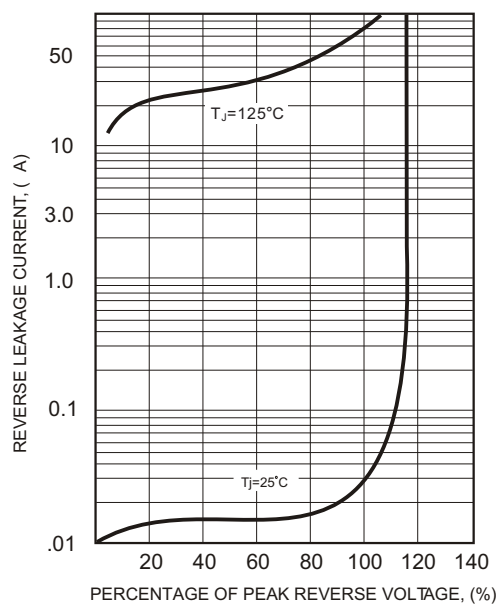


FIG.4-TYPICAL REVERSE  
CHARACTERISTICS



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