

### FEATURES:

- Glass Passivated Chip Junction
- Reverse Voltage - 100 to 1000 V
- Average Rectified Output Current- 0.6 A
- High Surge Current Capability
- Designed for Surface Mount Application

### MECHANICAL DATA

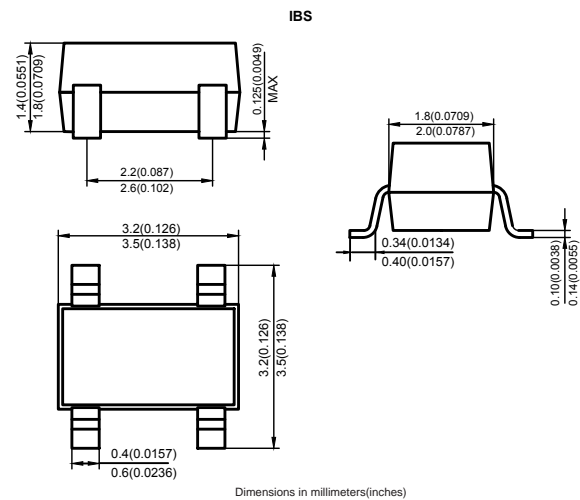
- Case: I B S
- Terminals: Solderable per MIL-STD-750, Method 2026

### VOLTAGE RANGE

50 to 1000 Volts

### CURRENT

0.6 Ampere



## 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	IB05S	IB1S	IB2S	IB4S	IB6S	IB8S	IB10S	UNIT
Maximum Recurrent Peak Reverse Voltage	50	100	200	400	600	800	1000	V
Maximum RMS Voltage	35	70	140	280	420	560	700	V
Maximum DC Blocking Voltage	50	100	200	400	600	800	1000	V
Maximum Average Forward Rectified Current at Ta=40°C(Note 1)	0.6							A
Peak Forward Surge Current, 8.3 ms single half sine-wave superimposed on rated load (JEDEC method)	25							A
I <sup>2</sup> t Rating for Fusing (1ms < t < 8.3ms)	2.59							A <sup>2</sup> S
Maximum Forward Voltage Drop per Bridge Element at 0.3A D.C.	1.0							V
Maximum DC Reverse Current at Rated DC Blocking Voltage	5.0							µA
Typical Thermal Resistance R <sub>JA</sub> (Note 2)	60							°C/W
Operating Temperature Range, T <sub>J</sub>	-55 — +150							°C
Storage Temperature Range, T <sub>STG</sub>	-55 — +150							°C

NOTES: 1. Mounted on P.C. Board.  
2. Thermal Resistance Junction to Ambient.

## RATING AND CHARACTERISTIC CURVES (IB05S THRU IB10S)

FIG.1-TYPICAL FORWARD CURRENT DERATING CURVE

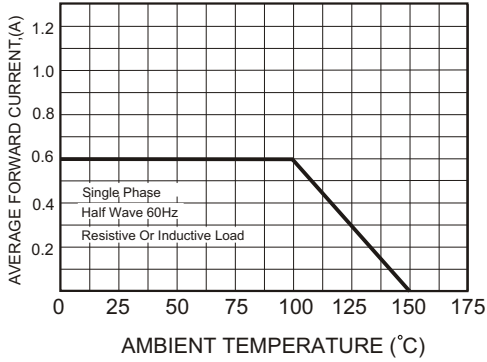


FIG.2-MAXIMUM NON-REPETITIVE FORWARD SURGE CURRENT

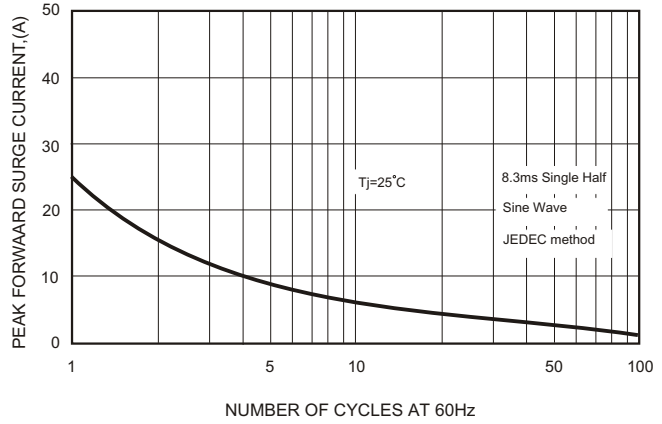


FIG.3-TYPICAL FORWARD CHARACTERISTICS

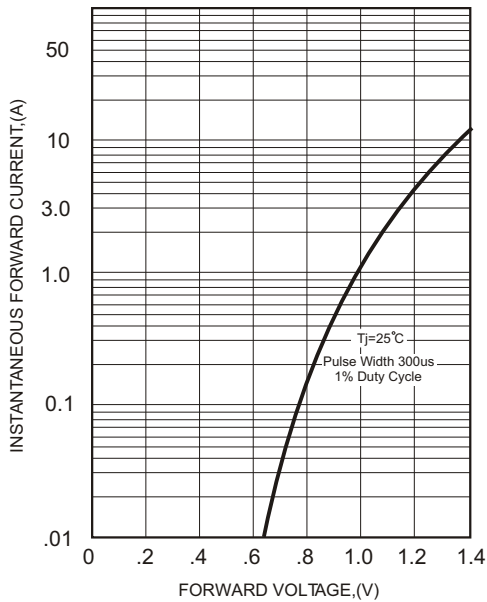


FIG.4-TYPICAL REVERSE CHARACTERISTICS

