



# IB05S THRU IB10S

## SINGLE PHASE 0.6 AMP SURFACE MOUNT BRIDGE RECTIFIERS

### 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

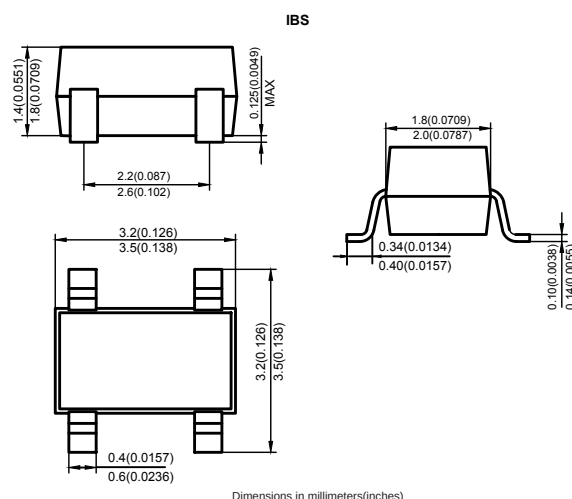
- Case: I B S
- Terminals: Solderable per MIL-STD-750, Method 2026

### VOLTAGE RANGE

50 to 1000 Volts

### CURRENT

0.6 Ampere



Dimensions in millimeters(inches)

## 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<br>at Ta=40°C(Note 1)                                       | 0.6        |      |      |      |      |      |       | A                |
| Peak Forward Surge Current, 8.3 ms single half sine-wave<br>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<br>at Rated DC Blocking Voltage Ta=25°C                                    | 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

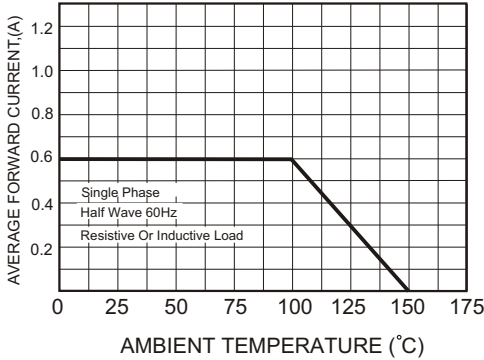


FIG.2-MAXIMUM NON-REPETITIVE FORWARD  
SURGE CURRENT

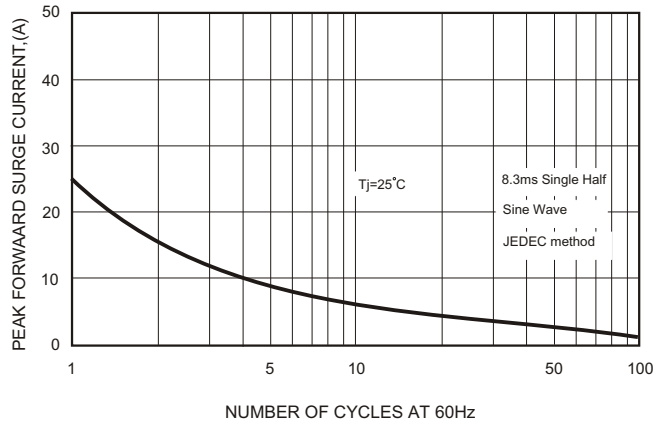


FIG.3-TYPICAL FORWARD  
CHARACTERISTICS

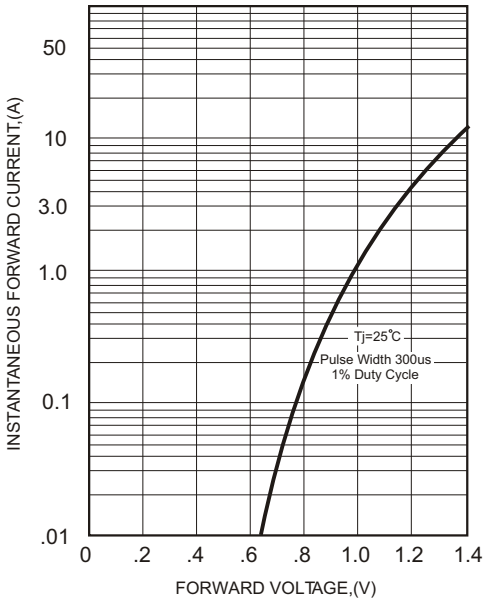


FIG.4-TYPICAL REVERSE  
CHARACTERISTICS

