GOODWORK

# IB05S THRU IB10S

## SINGLE PHASE 0.6 AMP SURF ACE 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**

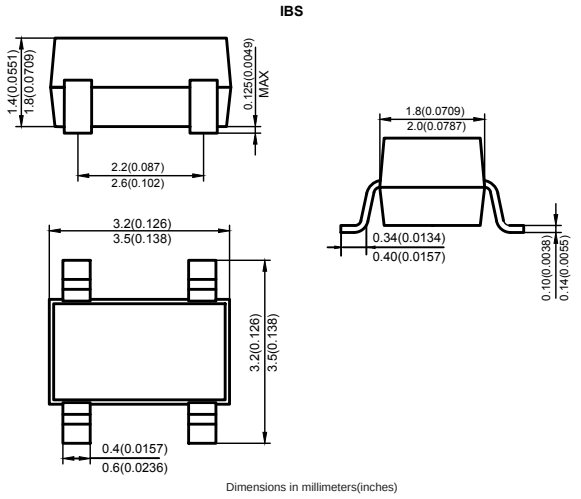
- Case: I B S
- Terminals: Solderable per MIL-STD-750, Method 2026

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 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 |
| $I^2t$ Rating for Fusing (1ms < t < 8.3ms) | 2.59 | | | | | | | $A^2S$ |
| Maximum Forward Voltage Drop per Bridge Element at 0.3A D.C. | 1.0 | | | | | | | V |
| Maximum DC Reverse Current Ta=25°C | 5.0 | | | | | | | μA |
| at Rated DC Blocking Voltage Ta=125°C | 500 | | | | | | | μA |
| Typical Thermal Resistance R JA (Note 2) | 60 | | | | | | | °C/W |
| Operating Temperature Range, $T_J$ | -55 — +150 | | | | | | | °C |
| Storage Temperature Range, $T_{STG}$ | -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

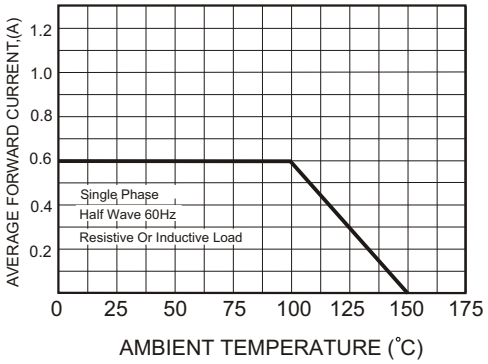



FIG.2-MAXIMUM NON-REPETITIVE FORWARD SURGE CURRENT

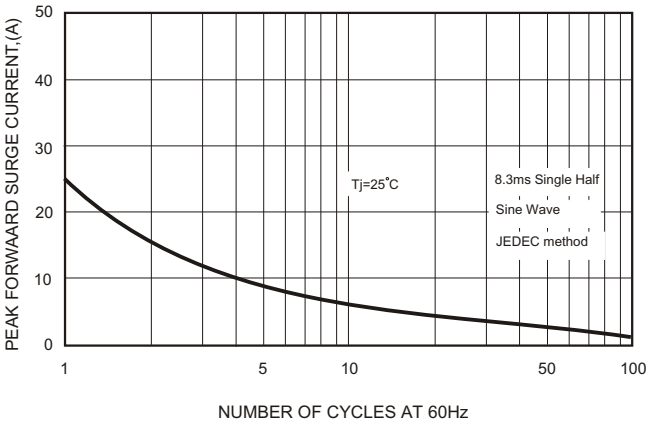



FIG.3-TYPICAL FORWARD CHARACTERISTICS

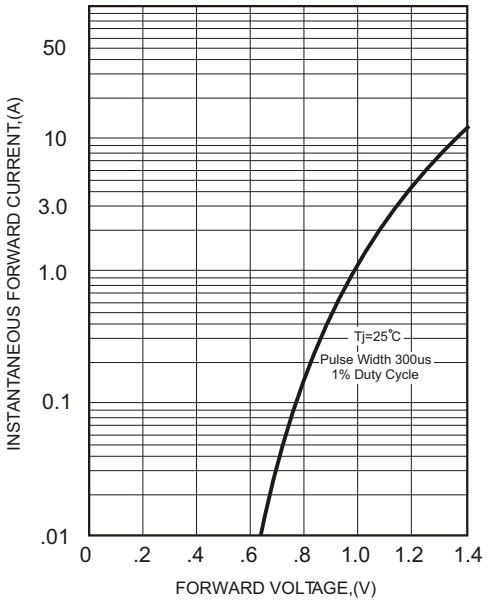



FIG.4-TYPICAL REVERSE CHARACTERISTICS