

DB151S THRU DB157S



SINGLE PHASE 1.5 AMP SURFACE MOUNT BRIDGE RECTIFIERS



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

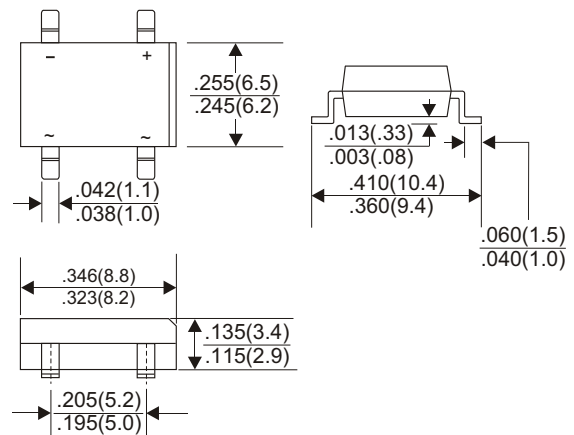
VOLTAGE RANGE

50 to 1000 Volts

CURRENT

1.5 Amperes

DB-1S



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 | DB151S | DB152S | DB153S | DB154S | DB155S | DB156S | DB157S | UNITS | |
|---|--------|--------|--------|--------|--------|--------|--------|------------|----|
| 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 | | | | | | | | 1.5 | A |
| Peak Forward Surge Current, 8.3 ms single half sine-wave superimposed on rated load (JEDEC method) | | | | | | | | 50 | A |
| Maximum Forward Voltage Drop per Bridge Element at 1.5A D.C. | | | | | | | | 1.1 | 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 (DB151S THRU DB157S)

FIG.1-TYPICAL FORWARD CURRENT DERATING CURVE

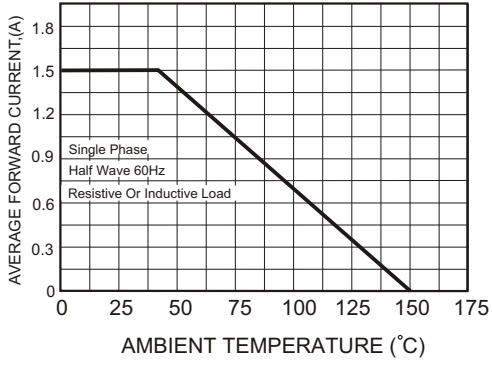


FIG.2-MAXIMUM NON-REPETITIVE FORWARD SURGE CURRENT

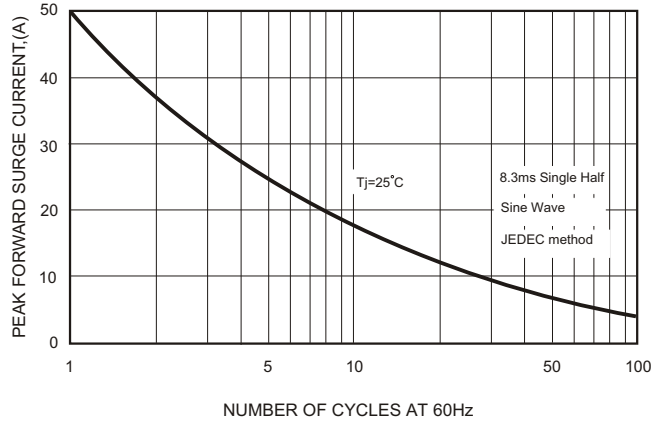


FIG.3-TYPICAL FORWARD CHARACTERISTICS

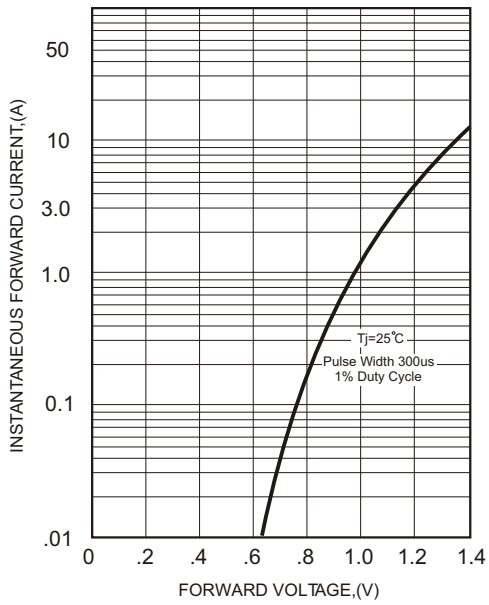


FIG.4-TYPICAL REVERSE CHARACTERISTICS

