# DB151S– DB157S

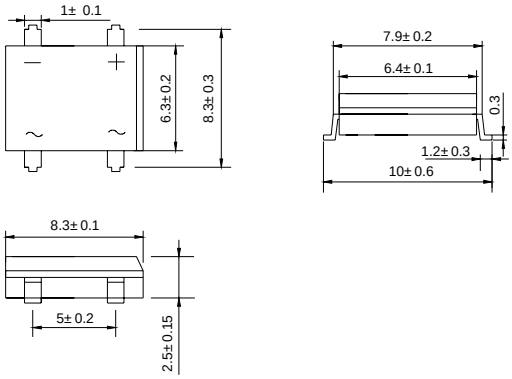
## SURFACE MOUNT GLASS PASSIVATED BRIDGE RECTIFIER

*Reverse Voltage - 50 to 1000 Volts  Forward Current - 1.5 Ampere*

### FEATURES

- ◇ Rating to 1000V PRV
- ◇ Surge overload rating to 30 Amperes peak
- ◇ Glass passivated chip junctions
- ◇ Reliable low cost construction utilizing molded plastic technique results in inexpensive product
- ◇ Lead solderable per MIL-STD-202 method 208
- ◇ Lead: silver plated copper, solderde plated
- ◇ Plastic material has UL flammability classification 94V-O
- ◇ Polarity symbols molded on body
- ◇ Weight: 0.016 ounces,0.45 grams

### DB-S




Dimensions in millimeters

### MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Ratings at 25℃ ambient temperature unless otherwise specified.

Single phase,half wave,60 Hz,resistive or inductive load. For capacitive load,derate by 20%.

| | | DB 151S | DB 152S | DB 153S | DB 154S | DB 155S | DB 156S | DB 157S | UNITS |
|---|---|---|---|---|---|---|---|---|---|
| Maximum recurrent peak reverse voltage | $V_{RRM}$ | 50 | 100 | 200 | 400 | 600 | 800 | 1000 | V |
| Maximum RMS voltage | $V_{RMS}$ | 35 | 70 | 140 | 280 | 420 | 560 | 700 | V |
| Maximum DC blocking voltage | $V_{DC}$ | 50 | 100 | 200 | 400 | 600 | 800 | 1000 | V |
| Maximum average forw ard Output current @$T_A$=25℃ | $I_{F(AV)}$ | 1.5 | | | | | | | A |
| Peak forw ard surge current 8.3ms single half-sine-w ave superimposed on rated load | $I_{FSM}$ | 40 | | | | | | | A |
| Maximum instantaneous forw ard voltage at 1.5 A | $V_F$ | 1.1 | | | | | | | V |
| Maximum reverse current @$T_A$=25℃ at rated DC blocking voltage @$T_A$=100℃ | $I_R$ | 10.0<br>1.0 | | | | | | | μA<br>m A |
| Operating junction temperature range | $T_J$ | - 55 ---- + 150 | | | | | | | ℃ |
| Storage temperature range | $T_{STG}$ | - 55 ---- + 150 | | | | | | | ℃ |



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**FIG.1 -- TYPICAL FORWARD CURRENT DERATING CURVE**

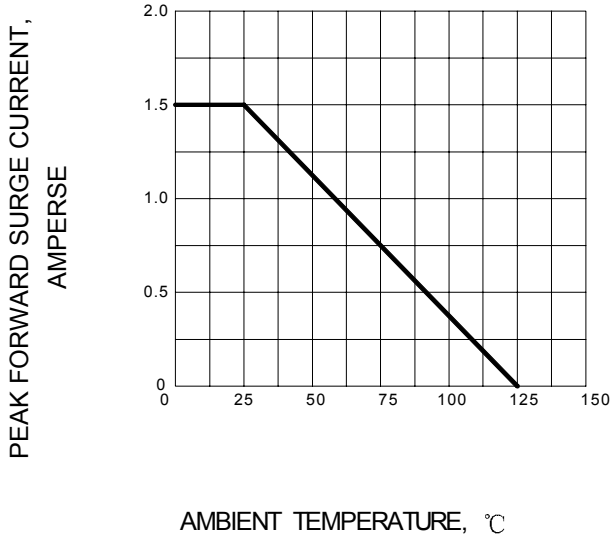



**FIG.2 -- MAXIMUM NON-REPETITIVE FORWARD SURGE CURRENT**

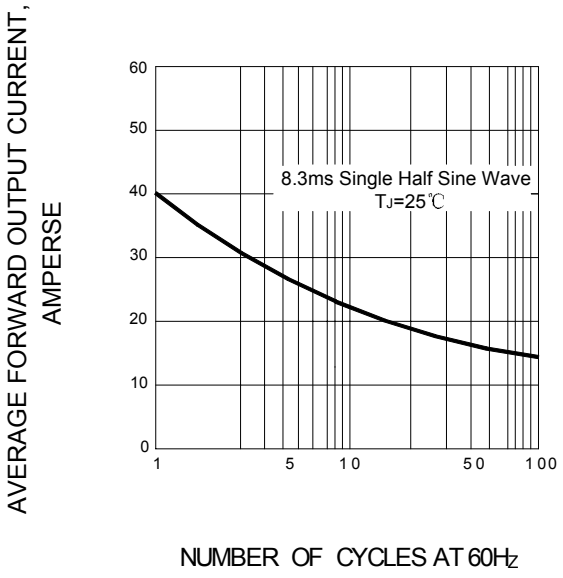



**FIG.3 -- TYPICAL FORWARD CHARACTERISTIC**

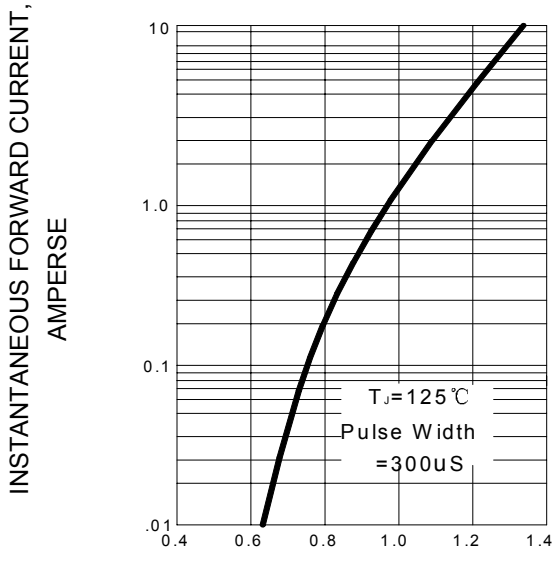
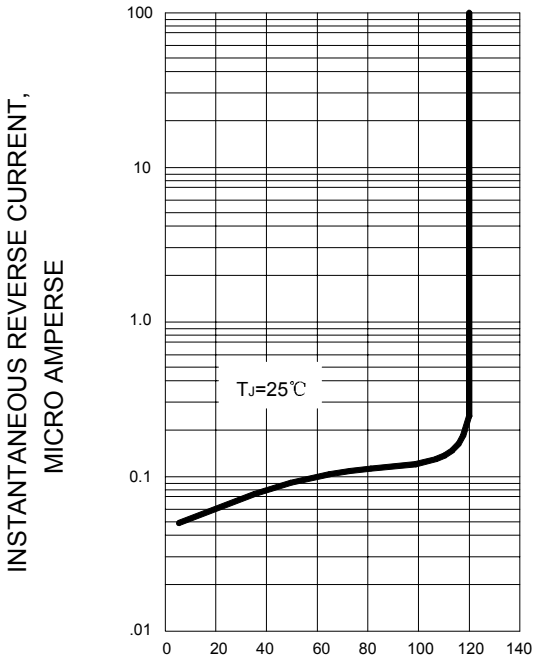



**FIG.4 -- TYPICAL REVERSE CHARACTERISTIC**




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