

SILICON BRIDGE RECTIFIERS

DF151--DF157

FEATURES

- Rating to 1000V PRVP
- Surge overload rating to 40 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 classification94V-O



Maximum Ratings(@TA = 25°C unless otherwise specified)

| Characteristic | Symbol | DF151 | DF152 | DF153 | DF154 | DF155 | DF156 | DF157 | UNITS |
|---|-------------|-------|-------|-------|-------|-------|-------|-------|-------|
| Maximum Recurrent Peak Reverse Voltage | V_{RRM} | 50 | 100 | 200 | 400 | 600 | 800 | 1000 | V |
| Maximum RMS Reverse Voltage | V_{RMS} | 35 | 75 | 140 | 280 | 420 | 560 | 700 | V |
| Maximum DC Blocking Voltage | V_{DC} | 50 | 100 | 200 | 400 | 600 | 800 | 1000 | V |
| Maximum average forward Output current @TA=25°C | $I_{F(AV)}$ | 1.5 | | | | | | | A |
| Peak forward surge current 8.3ms single half-sine-wave superimposed on rated load | I_{FSM} | 40 | | | | | | | A |

Thermal Characteristics

| Characteristic | Symbol | DF151 | DF152 | DF153 | DF154 | DF155 | DF156 | DF157 | UNITS |
|--------------------------------------|-----------|-------------|-------|-------|-------|-------|-------|-------|-------|
| Operating junction temperature range | T_J | -55 -- +150 | | | | | | | °C |
| Storage temperature range | T_{STG} | -55 -- +150 | | | | | | | °C |

Electrical Characteristics (@TA = 25°C unless otherwise specified)

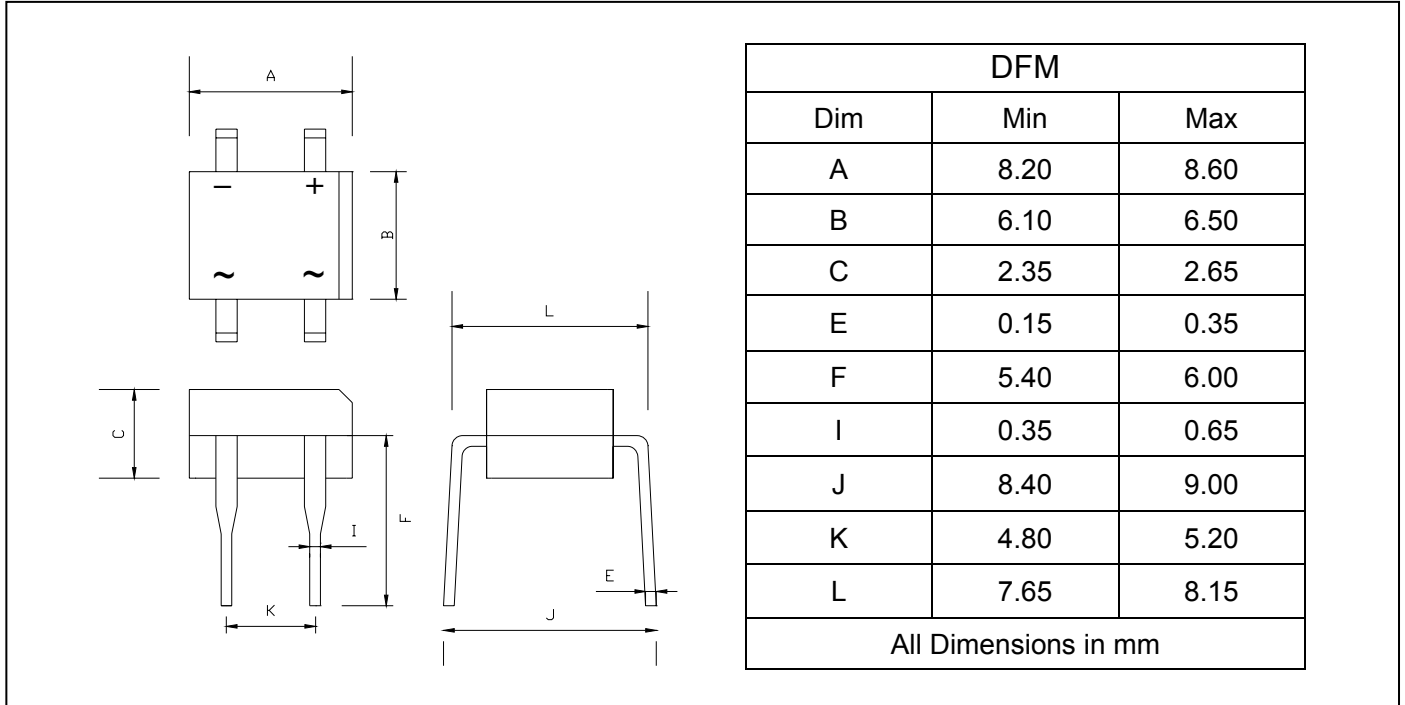
| Characteristic | Symbol | DF151 | DF152 | DF153 | DF154 | DF155 | DF156 | DF157 | UNITS |
|--|--------|-------|-------|-------|-------|-------|-------|-------|-----------|
| Maximum instantaneous forward voltage at 1.5A | V_F | 1.1 | | | | | | | V |
| Maximum reverse current @TA=25°C at rated DC blocking voltage @TA=100°C | I_R | 5.0 | | | | | | | μA m |
| | | 0.5 | | | | | | | A |



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PACKAGE OUTLINE DIMENSIONS



PACKAGE INFORMATION

| Device | Package | Shipping |
|--------------|---------|-------------|
| DF151--DF157 | DFM | 50unit/pipe |



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FIG.1 -- PEAK FORWARD SURGE CURRENT

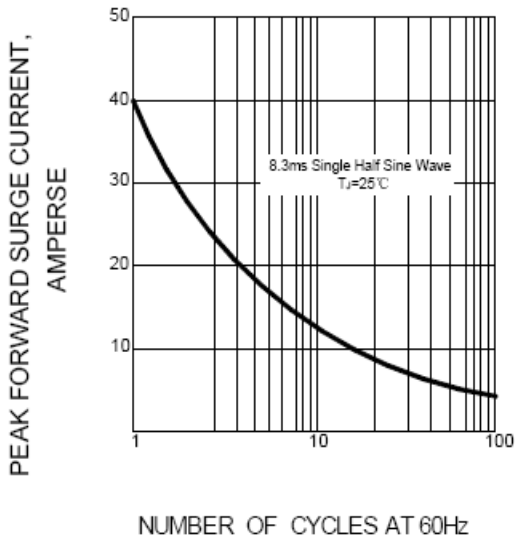


FIG.2 -- FORWARD DERATING CURVE

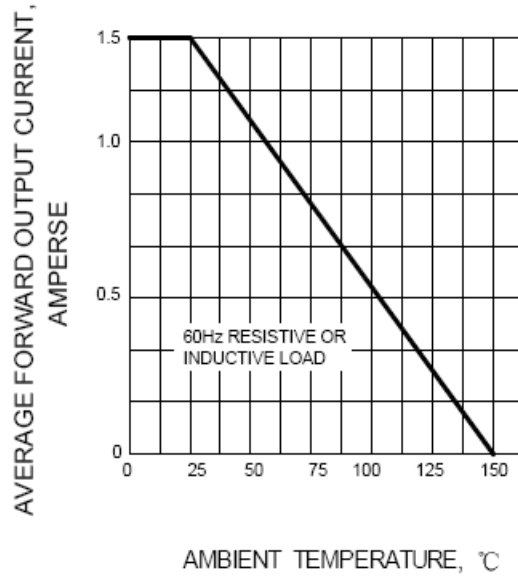


FIG.3 -- TYPICAL FORWARD CHARACTERISTIC

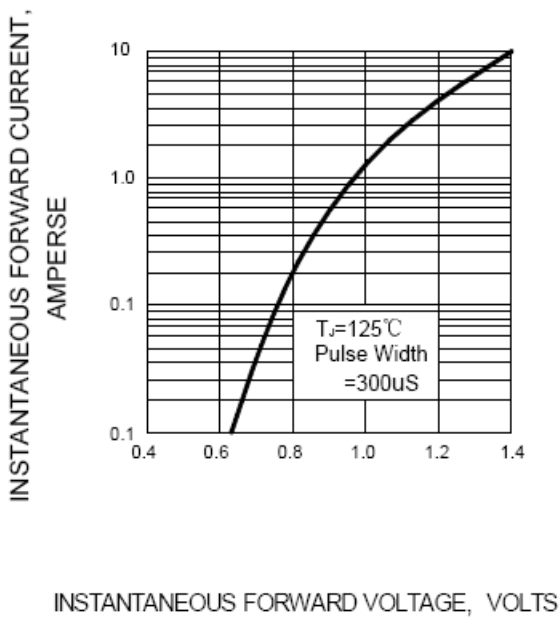


FIG.4 -- TYPICAL REVERSE CHARACTERISTIC

