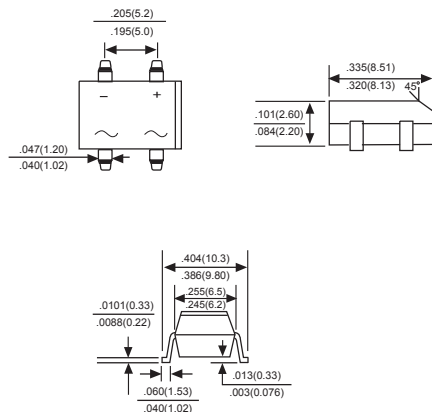


DF005S THRU DF10S

SINGLE PHASE GLASSPASSIVATED BRIDGE RECTIFIERS

DBS



Dimensions in inches and (millimeters)

FEATURES

- ◆ Ideal for printed circuit board
- ◆ Reliable low cost construction utilizing molded plastic technique
- ◆ High temperature soldering guaranteed:
- ◆ 250* / 10 seconds / 0.375"(9.5mm) led length at 5 lbs., (2.3kg)tension
- ◆ Small size, simple installation
Leads solderable per MIL-STD-202, Method 208
- ◆ High surge current capability

MECHANICAL DATA

Case: Molded plastic body

Terminals: Plated leads solderable per MIL-STD-750, Method 2026

Polarity: Polarity symbols marked on case

Mounting Position: Any

Weight: 0.04 ounce, 1.0 grams

MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Ratings at 25* ambient temperature unless otherwise specified.

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

| | SYMBOLS | DF 005S | DF 01S | DF 02S | DF 04S | DF 06S | DF 08S | DF 10S | UNITS |
|---|-------------|-------------|--------|--------|--------|--------|--------|--------|--------------------|
| Maximum repetitive peak reverse voltage | V_{RRM} | 50 | 100 | 200 | 400 | 600 | 800 | 1000 | VOLTS |
| Maximum RMS voltage | V_{RMS} | 35 | 70 | 140 | 280 | 420 | 560 | 700 | VOLTS |
| Maximum DC blocking voltage | V_{DC} | 50 | 100 | 200 | 400 | 600 | 800 | 1000 | VOLTS |
| Maximum average forward rectified current at $T_A=40^*$ | $I_{F(AV)}$ | 1.0 | | | | | | | Amps |
| Peak forward surge current 8.3ms single half sine-wave superimposed on rated load (JEDEC Method) | I_{FSM} | 30 | | | | | | | Amps |
| Maximum instantaneous forward voltage drop per bridge element at 1.0A | V_F | 1.1 | | | | | | | Volts |
| Maximum DC reverse current at rated DC blocking voltage | I_R | 10 500 | | | | | | | μA μA |
| Operating temperature range | T_J | -55 to +150 | | | | | | | * |
| storage temperature range | T_{STG} | -55 to +150 | | | | | | | * |

NOTES: DBS for surface mount package.

DF005S THRU DF10S

FIG. 1- MAXIMUM DERATING CURVE FOR OUTPUT RECTIFIED CURRENT

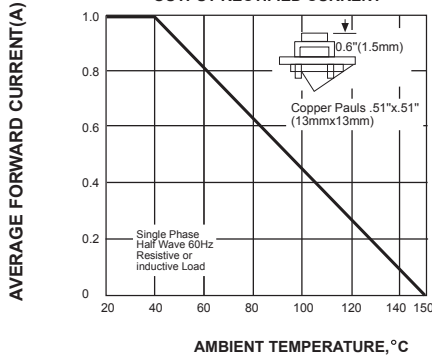


FIG. 2- MAXIMUM NON-REPETITIVE PEAK FORWARD SURGE CURRENT

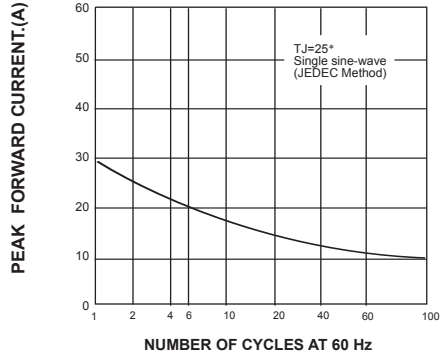


FIG. 3- TYPICAL REVERSE CHARACTERISTICS PER BRIDGE ELEMENT

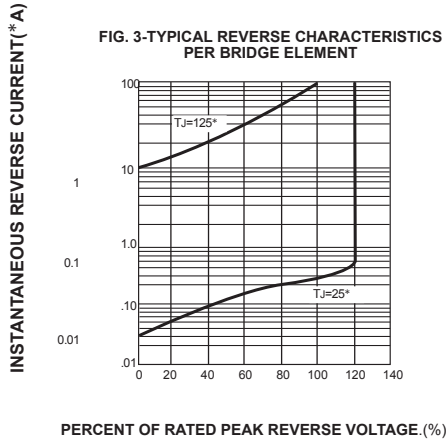


FIG. 4- TYPICAL FORWARD CHARACTERISTICS PER BRIDGE ELEMENT

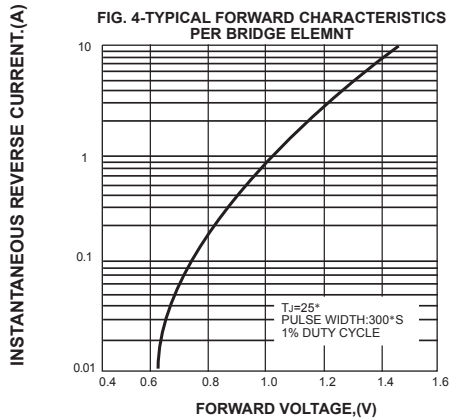


FIG. 3- TYPICAL JUNCTION CAPACITANCE PER BRIDGE ELEMENT

