



CHENYI ELECTRONICS

DF005S THRU DF10S

SINGLE PHASE GLASS PASSIVATED SURFACE MOUNT BRIDGE RECTIFIER

Voltage: 50 TO 1000V CURRENT:1.0A

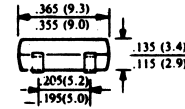
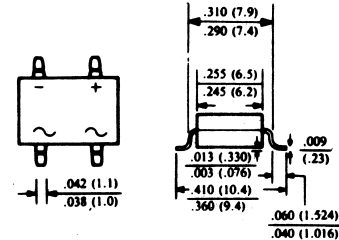
FEATURES

- For surface mount application
- Reliable low cost construction utilizing molded plastic technique
- Surge overload rating: 50A peak

MECHANICAL DATA

- Terminal:** Plated leads solderable per MIL-STD 202E, method 208C
- Case:** UL-94 Class V-0 recognized Flame Retardant Epoxy
- Polarity:** Polarity symbol marked on body
- Mounting position:** any

DFS



Dimensions in inches and (millimeters)

MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

(Single-phase, half-wave, 60HZ, resistive or inductive load rating at 25 °C , unless otherwise stated, for capacitive load, derate current by 20%)

| | SYMBOL | DF005S | DF01S | DF02S | DF04S | DF06S | DF08S | DF10S | 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 Forward Rectified current at Ta=40 °C | I _{f(av)} | 1 | | | | | | | A |
| Peak Forward Surge Current 8.3ms single half sine-wave superimposed on rated load | I _{fsm} | 50 | | | | | | | A |
| Maximum Instantaneous Forward Voltage at forward current 1.0A | V _f | 1.1 | | | | | | | V |
| Maximum DC Reverse Voltage Ta=25 °C | I _r | 10.0 | | | | | | | μ A |
| at rated DC blocking voltage Ta=125 °C | | 500 | | | | | | | mA |
| Typical Junction Capacitance | C _j | 25 | | | | | | | pF |
| Operating Temperature Range | T _j | -55 to +125 | | | | | | | °C |
| Storage and operation Junction Temperature | T _{stg} | -55 to +150 | | | | | | | °C |

Note:

1. Measure at 1MHZ and applied reverse voltage of 4.0 volt



RATINGS AND CHARACTERISTIC CURVES DF005S THRU DF10S

FIG.1-MAXIMUM NON-REPETITIVE FORWARD SURGE CURRENT

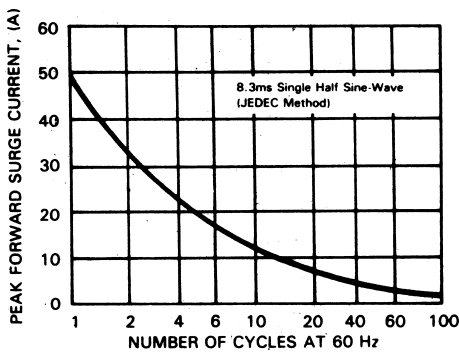


FIG.2-TYPICAL FORWARD CURRENT DERATING CURVE

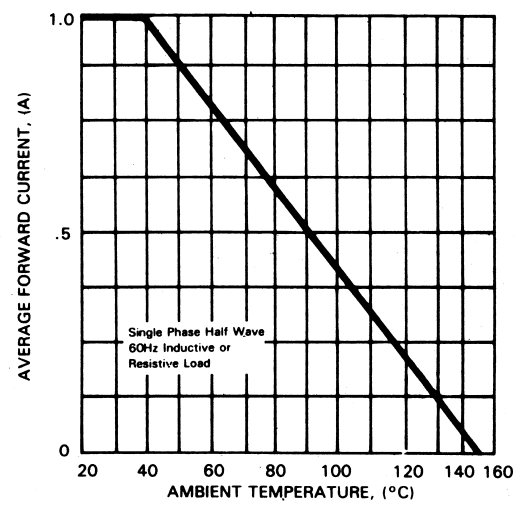


FIG.3-TYPICAL INSTANTANEOUS FORWARD CHARACTERISTICS

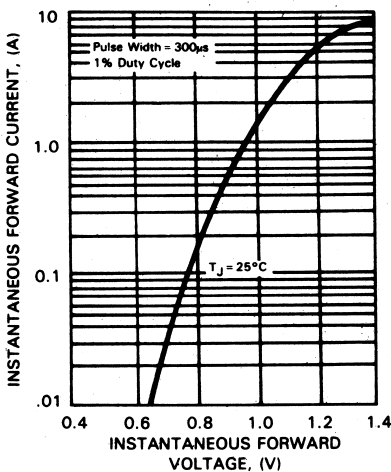


FIG.4-TYPICAL REVERSE CHARACTERISTICS

