

SSF4AG THRU SSF4KG

**ULTRAFAST EFFICIENT
GLASS PASSIVATED RECTIFIER**
VOLTAGE: 50 TO 800V CURRENT: 4.0A

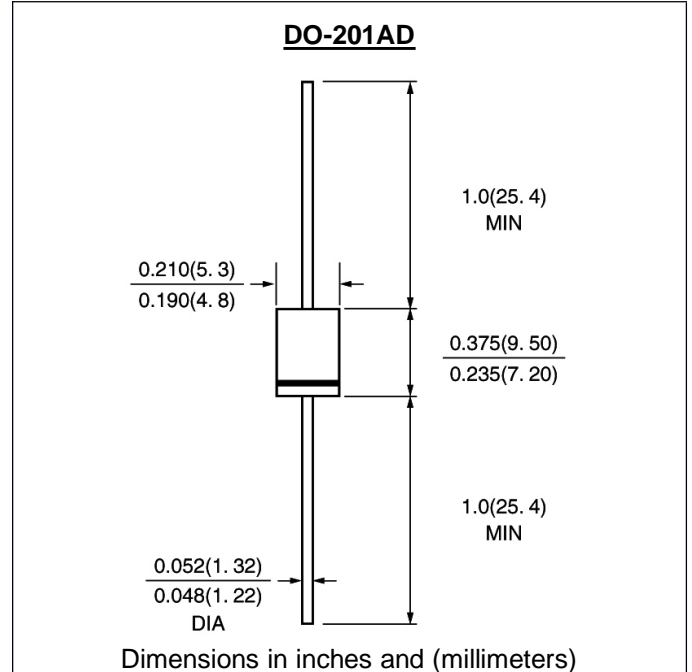


FEATURE

Low power loss
High surge capability
Ultra-fast recovery time for high efficiency
Glass passivated chip junction
High temperature soldering guaranteed
250°C/10sec/0.375"lead length at 5 lbs tension

MECHANICAL DATA

Terminal:Plated axial leads solderable per MIL-STD 202E, method 208C
Case:Molded with UL-94 Class V-0 recognized Flame Retardant Epoxy
Polarity:color band denotes cathode
Mounting position:any



MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

(single-phase, half -wave, 60HZ, resistive or inductive load rating at 25°C, unless otherwise stated)

| | SYMBOL | SSF 4AG | SSF 4BG | SSF 4DG | SSF 4GG | SSF 4JG | SSF 4KG | units | |
|---|----------------------|---------------|------------|------------|------------|------------|------------|----------|----|
| Maximum Recurrent Peak Reverse Voltage | V _{rrm} | 50 | 100 | 200 | 400 | 600 | 800 | V | |
| Maximum RMS Voltage | V _{rms} | 35 | 70 | 140 | 280 | 420 | 560 | V | |
| Maximum DC blocking Voltage | V _{dc} | 50 | 100 | 200 | 400 | 600 | 800 | V | |
| Maximum Average Forward Rectified Current 3/8"lead length at Ta =55°C | I _{f(av)} | 4.0 | | | | | | A | |
| Peak Forward Surge Current 8.3ms single half sine-wave superimposed on rated load | I _{fsm} | 125.0 | | | | | | A | |
| Maximum Forward Voltage at Forward current 4A Peak | V _f | 1.00 | | 1.25 | | 1.70 | | V | |
| Maximum DC Reverse Current at rated DC blocking voltage | I _r | 10.0 100.0 | | | | | | μA μA | |
| Maximum Reverse Recovery Time (Note 1) | T _{rr} | 30 | | | | 35 | | | nS |
| Typical Junction Capacitance (Note 2) | C _j | 65 | | | | | | pF | |
| Storage and Operating Junction Temperature | T _{stg, Tj} | -55 to +150 | | | | | | °C | |

Note:

- Reverse Recovery Condition I_f =0.5A, I_r =1.0A, I_{rr} =0.25A
- Measured at 1.0 MHz and applied reverse voltage of 4.0Vdc

RATINGS AND CHARACTERISTIC CURVES SSF4AG THRU SSF4KG

FIG.1- FORWARD CURRENT DERATING CURVE

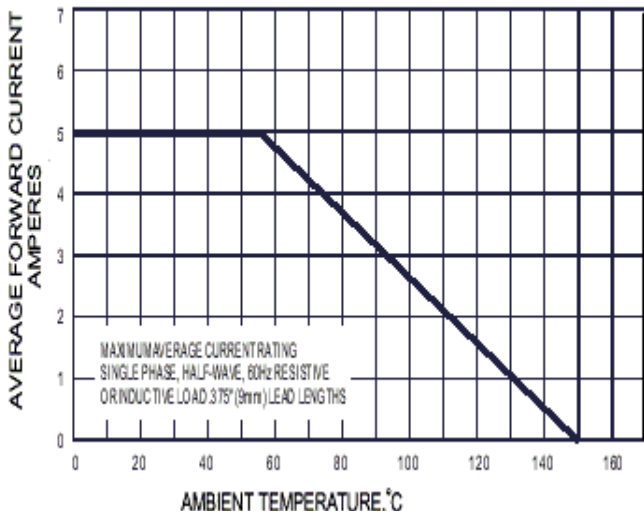


FIG.2- MAXIMUM NON-REPETITIVE SURGE CURRENT

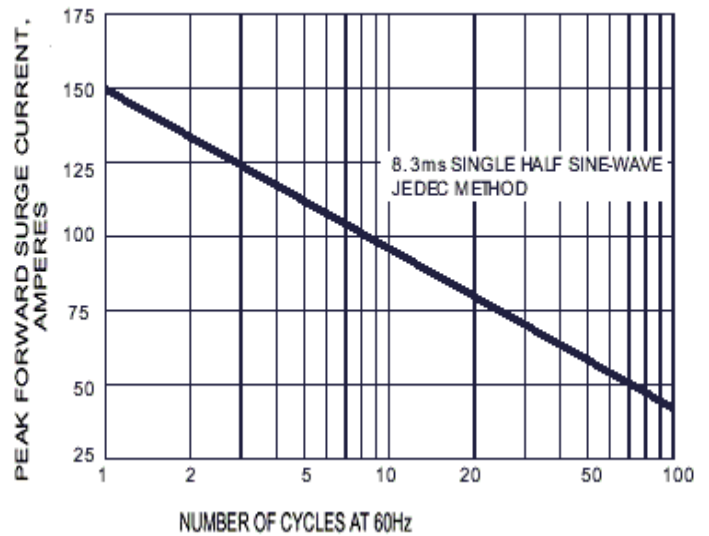


FIG.3- TYPICAL REVERSE LEAKAGE CHARACTERISTICS

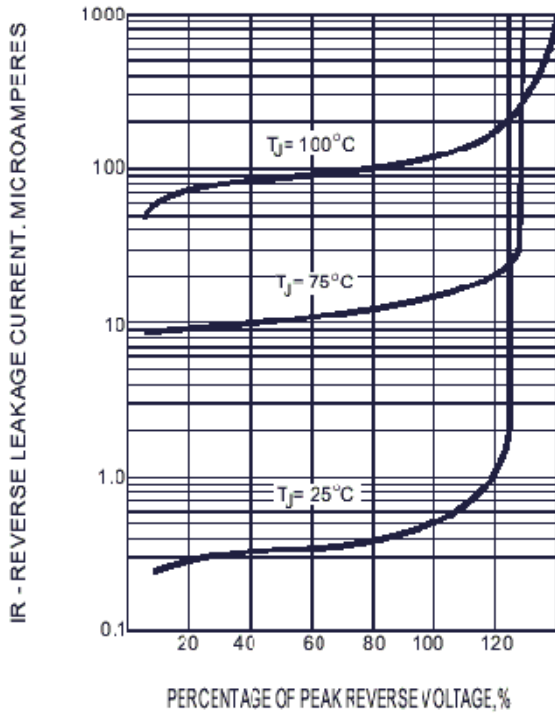


FIG.4- TYPICAL FORWARD CHARACTERISTICS

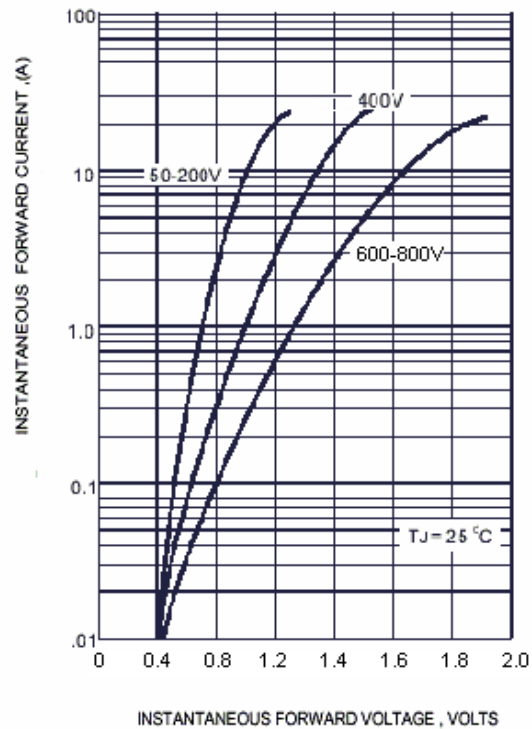


FIG.5- TYPICAL JUNCTION CAPACITANCE

