

FEATURES

- GPRC(Glass Passivated Rectifier Chip) inside
- Glass passivated cavity-free junction
- For Surface Mount Applications
- Easy to pick and place
- Low forward voltage drop,High current capability
- High surge current capability
- Super fast recovery time
- Plastic package has Underwriters Laboratory Flammability
- Classification 94V-0

MECHANICAL DATA

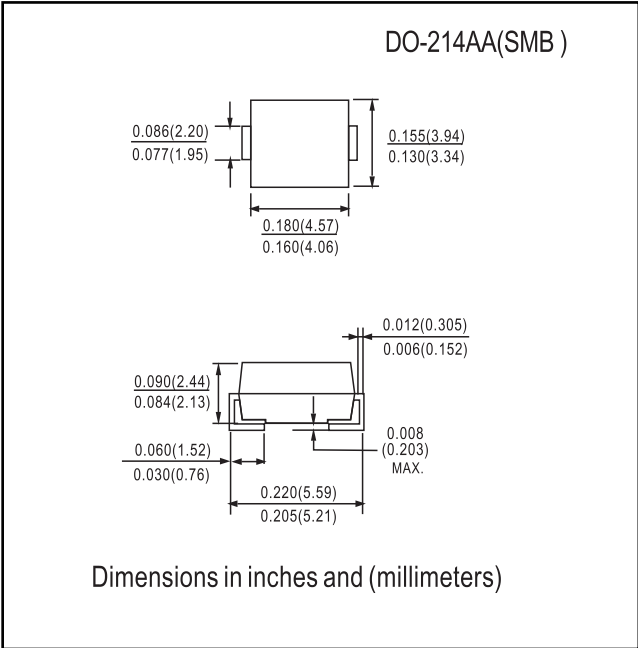
Case : JEDEC DO-214AA molded plastic over passivated chip

Terminals : Solder plated , solderable per MIL-STD-750, Method 2026

Polarity : Color band denotes cathode end

Mounting Position : Any

Weight : 0.003 ounces , 0.093 gram



MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

(Rating at 25 °C ambient temperature unless otherwise specified ,Single phase ,half wave ,60Hz,resistive or inductive load. For capacitive load,derate current by 20%.)

| | Symbols | EGF 20A | EGF 20B | EGF 20D | EGF 20F | EGF 20G | EGF 20J | EGF 20K | EGF 20M | Units |
|--|-----------------------|------------|---------|---------|---------|---------|---------|---------|---------|-------|
| Maximum Recurrent Peak Reverse Voltage | V _{RRM} | 50 | 100 | 200 | 300 | 400 | 600 | 800 | 1000 | Volts |
| Maximum RMS Voltage | V _{RMS} | 35 | 70 | 140 | 210 | 280 | 420 | 480 | 700 | Volts |
| Maximum DC Blocking Voltage | V _{DC} | 50 | 100 | 200 | 300 | 400 | 600 | 800 | 1000 | Volts |
| Maximum Average Forward Rectified Current 0.375"(9.5mm)lead Length at T _a =55 °C | I(AV) | 2.0 | | | | | | | | Amp |
| Peak Forward Surge Current 8.3ms single half sine-wave superimposed on rated load (JEDEC method) | I _{FSM} | 65.0 | | | | | 60.0 | | | Amps |
| Maximum Instantaneous Forward Voltage at 1.0 A | V _F | 0.95 | | | 1.25 | | 1.7 | | | Volts |
| Maximum DC Reverse Current At Rated DC Blocking Voltage | T _A =25°C | 5.0 | | | | | | | | μA |
| | T _A =100°C | 100 | | | | | | | | |
| Maximum Reverse Recovery Time(Note1) | T _{rr} | 50 | | | | | 75 | | | ns |
| Typical Junction Capacitance(Note2) | C _J | 45 | | | | | | | | Pf |
| Operating Junction and Storage Temperature Range | T _J | -65 to+125 | | | | | | | | °C |
| | T _{STG} | -65 to+150 | | | | | | | | |

Note: 1. Test conditions: I_F=0.5A,I_R=1.0A,I_{RR}=0.25A.

2.Measured at 1MHZ and applied reverse voltage of 4.0 Volts.



RATINGS AND CHARACTERISTICS CURVES

EGF20A THRU EGF20M

FIG.1 - FORWARD CURRENT DERATING CURVE

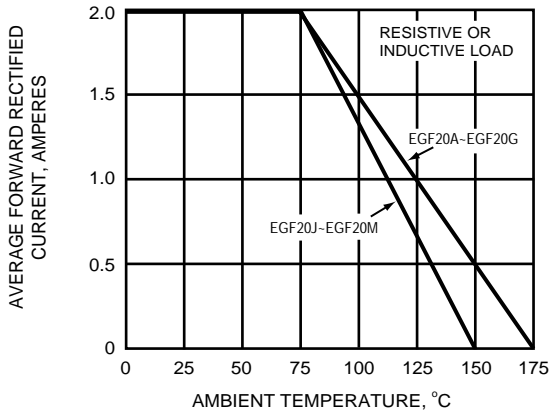


FIG.2 - MAXIMUM NON-REPETITIVE PEAK FORWARD SURGE CURRENT

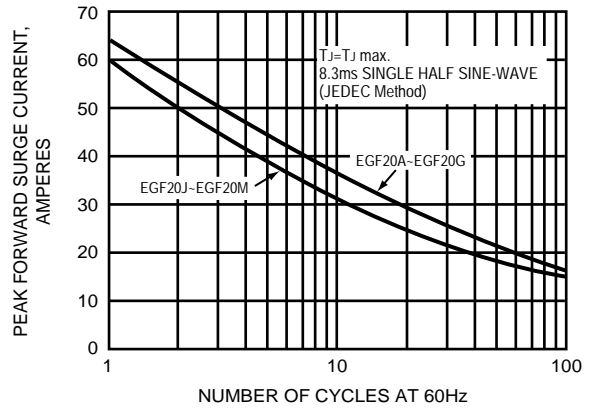


FIG.3 - TYPICAL INSTANTANEOUS FORWARD CHARACTERISTICS

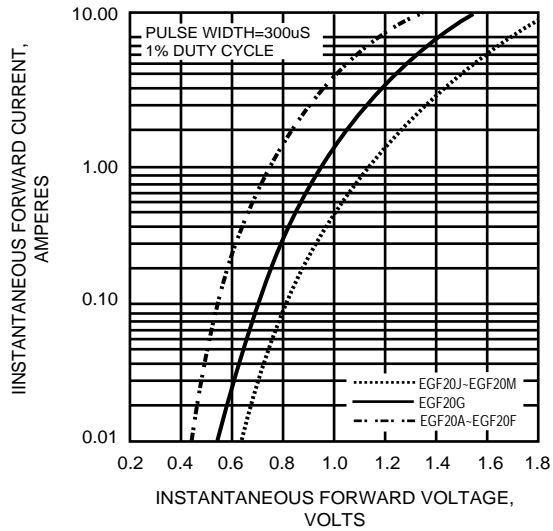


FIG.4 - TYPICAL REVERSE CHARACTERISTICS

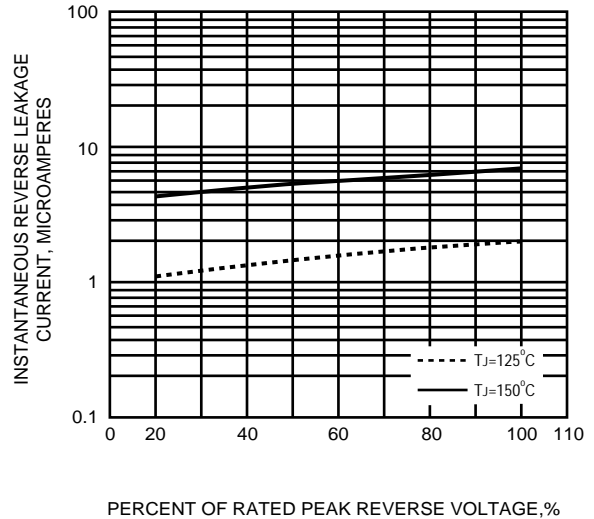


FIG.5 - TYPICAL JUNCTION CAPACITANCE

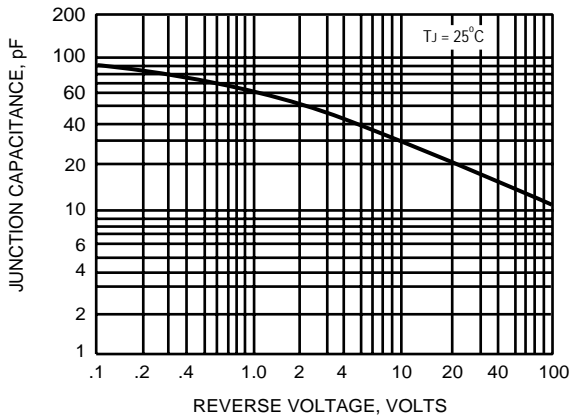


FIG.6 - TYPICAL TRANSIENT THERMAL IMPEDANCE

