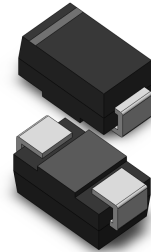


VOLTAGE RANGE: 50 - 200V

CURRENT: 1.0 A

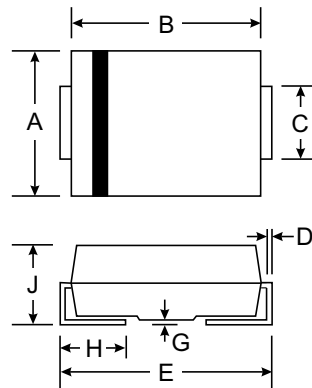
Features

- Plastic package has Underwriters Laboratory
- Flammability Classification 94V-0
- Ideal for surface mount automotive applications
- High temperature metallurgically bonded construction
- Superfast recovery times for high efficiency
- Glass passivated cavity-free junction
- Built-in strain relief
- Easy pick and place



Mechanical Data

- Case: SMA(DO-214AC)Molded Plastic
- Terminals: Solder Plated Terminal - Solderable per MIL-STD-202, Method 208
- Polarity: Cathode Band or Cathode Notch
- Marking: Type Number
- Weight: 0.064 grams (approx.)
- Mounting Position: Any



| SMA(DO-214AC) | | |
|----------------------|------|------|
| Dim | Min | Max |
| A | 2.29 | 2.92 |
| B | 4.00 | 4.60 |
| C | 1.27 | 1.63 |
| D | 0.15 | 0.31 |
| E | 4.80 | 5.59 |
| G | 0.10 | 0.20 |
| H | 0.76 | 1.52 |
| J | 2.01 | 2.62 |
| All Dimensions in mm | | |

Maximum Ratings and Electrical Characteristics T_A = 25°C unless otherwise specified

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

| Characteristic | Symbol | EGF1A | EGF1B | EGF1C | EGF1D | Unit |
|---|-----------------------------------|-------------|-------|-------|-------|------|
| Peak Repetitive Reverse Voltage Working Peak Reverse Voltage DC Blocking Voltage | V_{RRM} V_{RWM} V_R | 50 | 100 | 150 | 200 | V |
| RMS Reverse Voltage | $V_{R(RMS)}$ | 35 | 70 | 105 | 140 | V |
| Average Rectified Output Current @ T _T = 75°C | I _O | 1.0 | | | | A |
| Non-Repetitive Peak Forward Surge Current 8.3ms Single half sine-wave Superimposed on Rated Load | I _{FSM} | 30 | | | | A |
| (JEDEC Method) Forward Voltage Drop @ I _F = 1.0A | V _{FM} | 1.0 | | | | V |
| Peak Reverse Current at Rated DC Blocking Voltage @ T _A = 25°C @ T _A = 125°C | I _{RM} | 5.0 50 | | | | μA |
| Reverse Recovery Time (Note 2) | t _{rr} | 50 | | | | ns |
| Typical Junction Capacitance (Note 1) | C _J | 15 | | | | pF |
| Typical Thermal Resistance, Junction to Terminal | R _{θJT} | 30 | | | | °C/W |
| Operating and Storage Temperature Range | T _J , T _{STG} | -65 to +150 | | | | °C |

- Notes: 1. Measured at 1.0MHz and applied reverse voltage of 4.0V DC.
2. Measured with I_F = 0.5A, I_R = 1.0A, I_{rr} = 0.25A.

RATINGS AND CHARACTERISTICS CURVES EGF1A THRU EGF1D

FIG. 1 - MAXIMUM FORWARD CURRENT DERATING CURVE

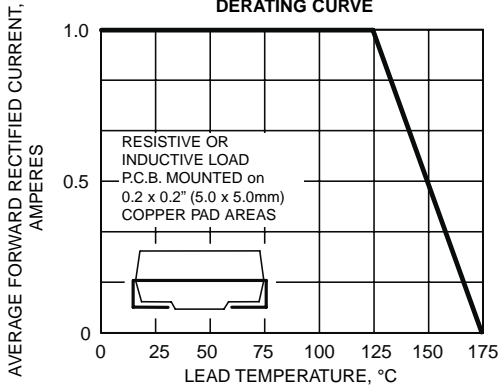


FIG. 2 - MAXIMUM NON-REPETITIVE PEAK FORWARD SURGE CURRENT

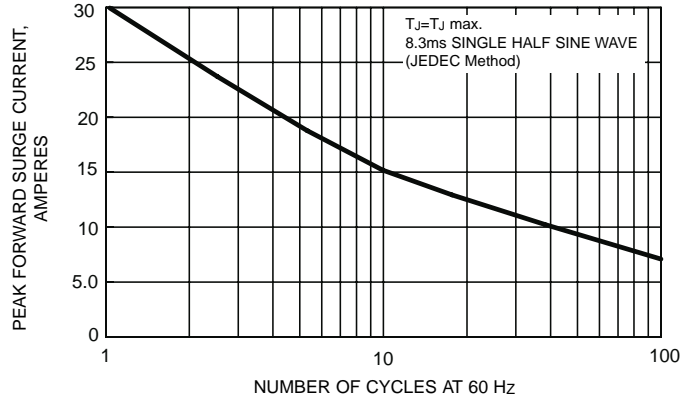


FIG. 3 - TYPICAL INSTANTANEOUS FORWARD CHARACTERISTICS

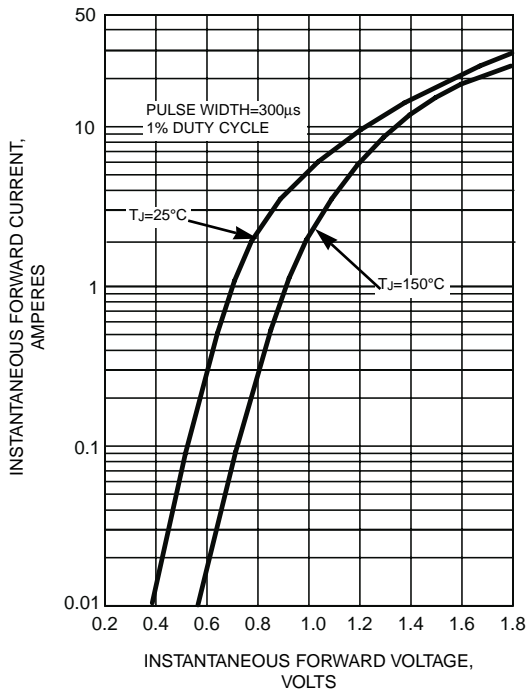


FIG. 4 - TYPICAL REVERSE CHARACTERISTICS

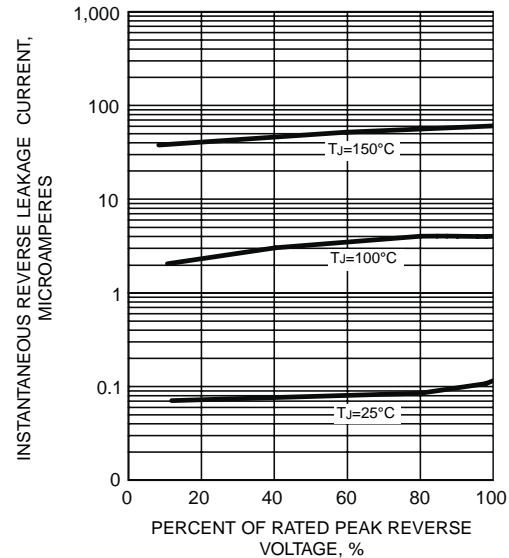


FIG. 5 - TYPICAL JUNCTION CAPACITANCE

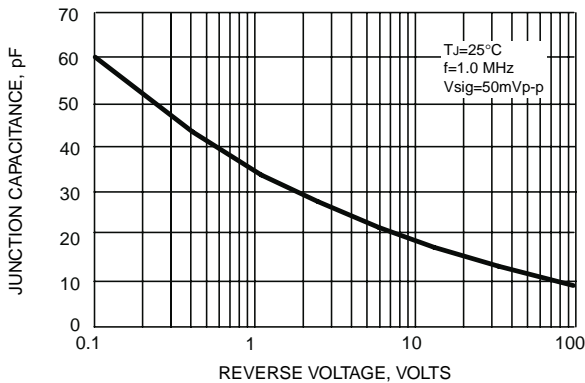


FIG. 6 - TYPICAL TRANSIENT THERMAL IMPEDANCE

