



Micro Commercial Components
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EGL34A THRU EGL34M

Features

- High Current Capability
- Extremely Low Thermal Resistance
- For Surface Mount Application
- Higher Temp Soldering: 250°C for 10 Seconds At Terminals
- Minimelf Package

Maximum Ratings

- Operating Temperature: -55°C to +150°C
- Storage Temperature: -55°C to +150°C
- Maximum Thermal Resistance: 5°C/W Junction to Lead

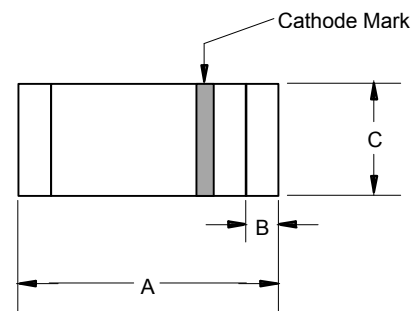
| MCC Catalog Number | Device Marking | Maximum Recurrent Peak Reverse Voltage | Maximum RMS Voltage | Maximum DC Blocking Voltage |
|--------------------|----------------|----------------------------------------|---------------------|-----------------------------|
| EGL34A | ---- | 50V | 35V | 50V |
| EGL34B | ---- | 100V | 70V | 100V |
| EGL34D | ---- | 200V | 140V | 200V |
| EGL34G | ---- | 400V | 280V | 400V |
| EGL34J | ---- | 600V | 420V | 600V |
| EGL34K | ---- | 800V | 560V | 800V |
| EGL34M | ---- | 1000V | 700V | 1000V |

Electrical Characteristics @ 25°C Unless Otherwise Specified

| | | | |
|-------------------------------------------------------------------------|-------------|----------------------|---------------------------------------------------|
| Average Forward Current | $I_{F(AV)}$ | 0.5A | $T_J=75^\circ\text{C}$ |
| Peak Forward Surge Current | I_{FSM} | 10.0A | 8.3ms half sine |
| Maximum Instantaneous Forward Voltage EGL34A-D EGL34G EGL34J-M | V_F | 1.25 1.35 1.50 | $I_{FM}=0.5A$ $T_A=25^\circ\text{C}$ |
| Maximum DC Reverse Current At Rated DC Blocking Voltage | I_R | 5.0uA 50uA | $T_J=25^\circ\text{C}$ $T_J=125^\circ\text{C}$ |
| Typical Junction Capacitance | C_J | 7.0pF | Measured at 1.0MHz, $V_R=4.0V$ |
| Maximum Reverse Recovery Time EGL34A-G EGL34J-M | T_{rr} | 50ns 75ns | $I_F=0.5A, I_R=1.0A,$ $I_{rr}=0.25A$ |

0.5 Amp Super Fast Recovery Rectifier 50 to 1000 Volts

MINIMELF



| DIM | DIMENSION | | | | NOTE |
|-----|-----------|------|------|------|------|
| | INCHES | | MM | | |
| | MIN | MAX | MIN | MAX | |
| A | .134 | .142 | 3.40 | 3.60 | |
| B | .008 | .016 | 0.20 | 0.40 | |
| C | .055 | .059 | 1.40 | 1.50 | |

SUGGESTED SOLDER PAD LAYOUT

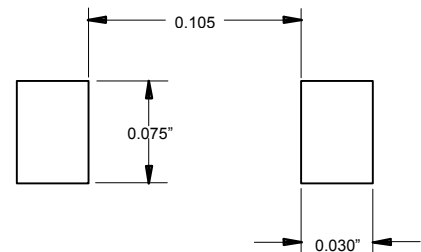


FIG. 1 - FORWARD CURRENT DERATING CURVE

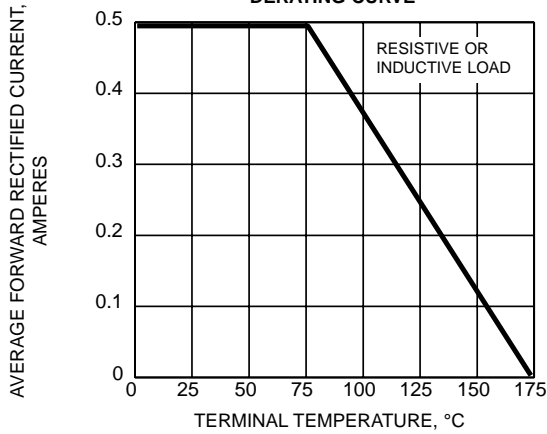


FIG. 2 - MAXIMUM NON-REPETITIVE PEAK FORWARD SURGE CURRENT

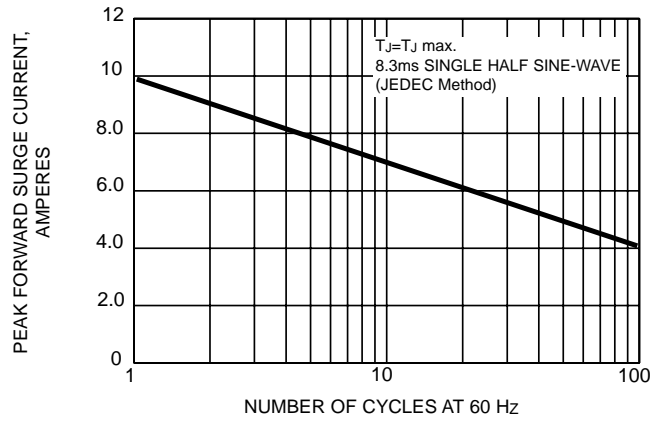


FIG. 3 - TYPICAL INSTANTANEOUS FORWARD CHARACTERISTICS

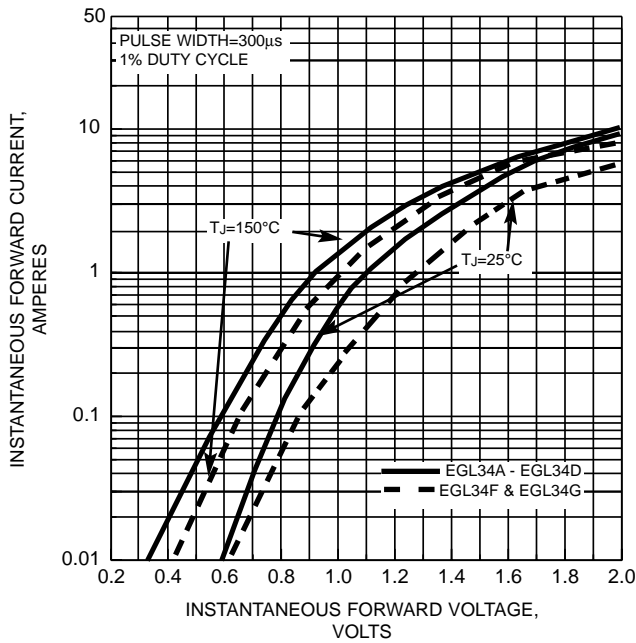


FIG. 4 - TYPICAL REVERSE CHARACTERISTICS

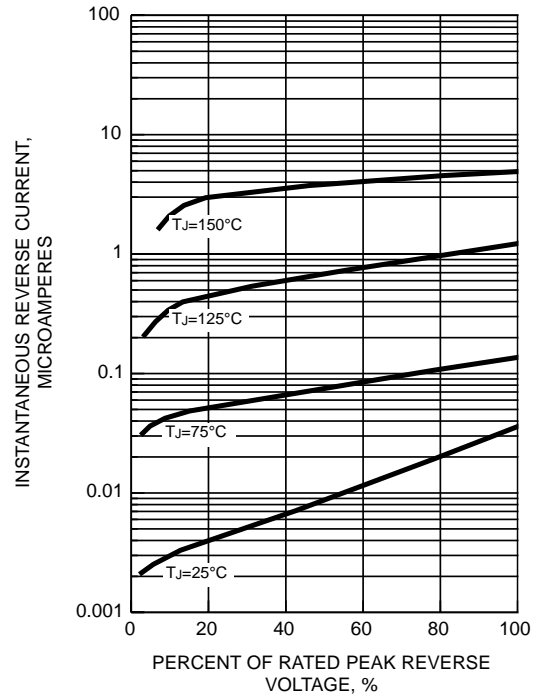


FIG. 5 - TYPICAL JUNCTION CAPACITANCE

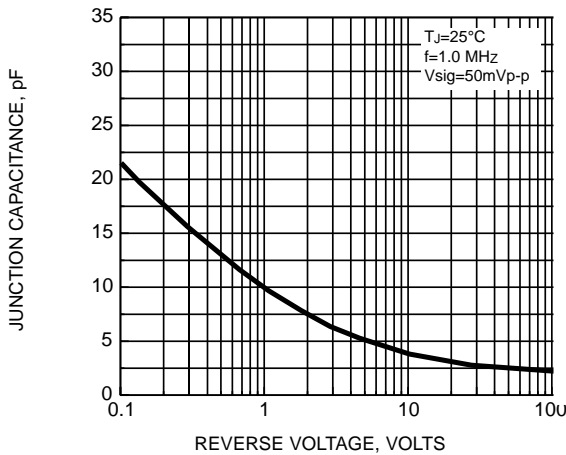


FIG. 6 - TYPICAL TRANSIENT THERMAL IMPEDANCE

