



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

The diagram shows a side view of the Minimelf package. Dimension A is the total length, B is the width of the body, and C is the height. A shaded vertical line on the top surface indicates the cathode mark.

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

The diagram shows two rectangular solder pads. The distance between the inner edges of the pads is 0.105. The height of each pad is 0.075. The distance from the inner edge of each pad to its outer edge is 0.030.

FIG. 1 - FORWARD CURRENT DERATING CURVE

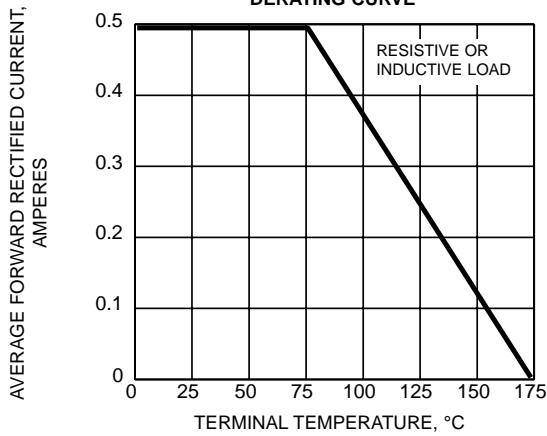


FIG. 2 - MAXIMUM NON-REPETITIVE PEAK FORWARD SURGE CURRENT

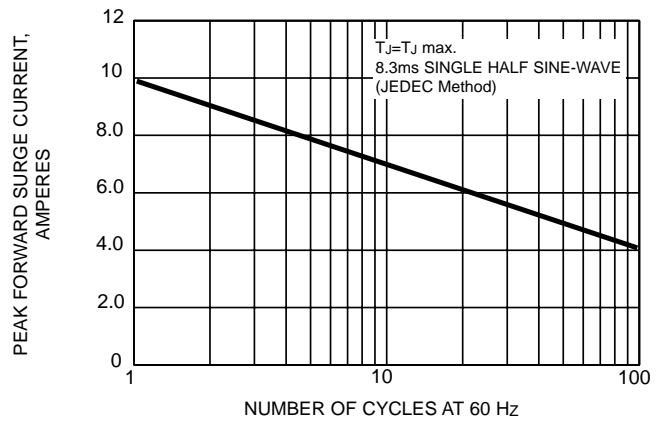


FIG. 3 - TYPICAL INSTANTANEOUS FORWARD CHARACTERISTICS

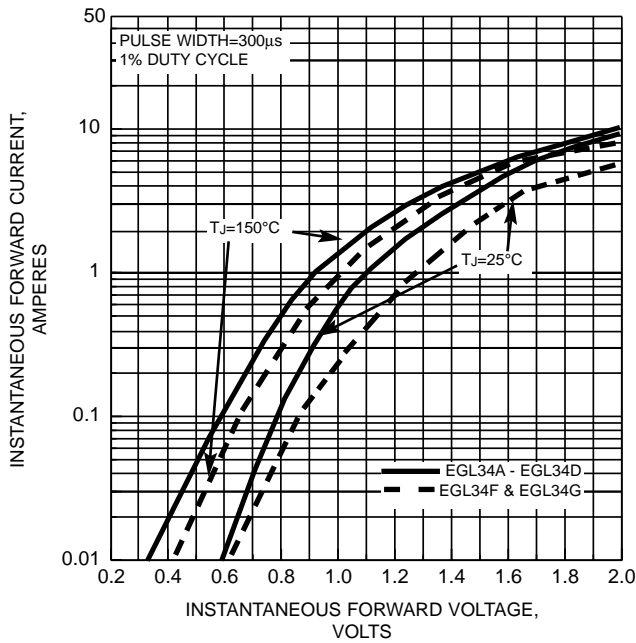


FIG. 4 - TYPICAL REVERSE CHARACTERISTICS

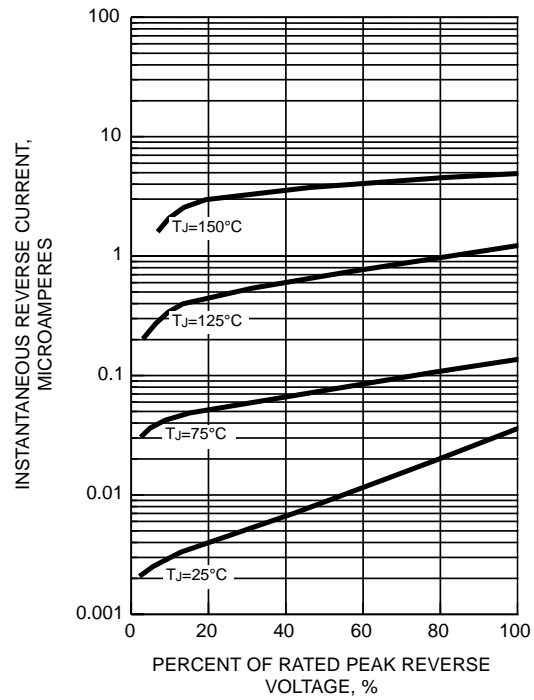


FIG. 5 - TYPICAL JUNCTION CAPACITANCE

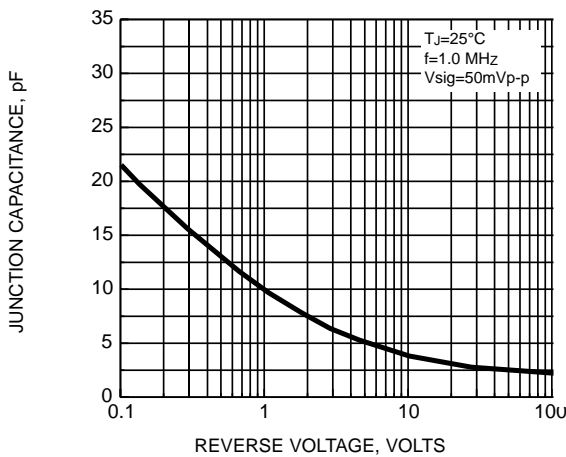


FIG. 6 - TYPICAL TRANSIENT THERMAL IMPEDANCE

