EGL34A THRU EGL34G

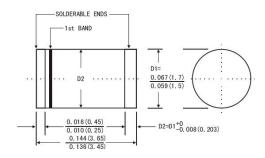
SURFACE MOUNT GLASS PASSIVATED ULTRAFAST RECTIFIER

Reverse Voltage - 50 to 400 V

Forward Current - 0.5 A

Features

- Plastic package has Underwriters Laboratories
 Flammability Classification 94V-0
- High temperature metallurgically bonded construction
- · Cavity-free glass passivated junction
- · Fast switching for high efficiency



MiniMELF (DO-213AA) Plastic Package

Mechanical Data

- · Case: MiniMELF (DO-213AA), molded plastic body
- Terminals: Solder plated, solderable per MIL-STD-750, method 2026
- · Polarity: Color band denotes cathode end
- Mounting Position: Any

Absolute Maximum Ratings and Characteristics

Ratings at 25 °C ambient temperature unless otherwise specified.

J	F							
Parameter	Symbols	EGL34A	EGL34B	EGL34C	EGL34D	EGL34F	EGL34G	Units
Maximum Repetitive Peak Reverse Voltage	V _{RRM}	50	100	150	200	300	400	V
Maximum RMS Voltage	V _{RMS}	35	70	105	140	210	280	V
Maximum DC Blocking Voltage	V_{DC}	50	100	150	200	300	400	V
Maximum Average Forward Rectified Current at $T_T = 75$ °C	I _{F(AV)}	0.5						Α
Peak Forward Surge Current 8.3 ms Single Half Sine Wave Superimposed on Rated Load (JEDEC Method)	I _{FSM}	10						Α
Maximum Forward Voltage at 0.5 A	V _F	1.25 1.35				35	V	
$ \begin{array}{ll} \text{Maximum Reverse Current} & T_{\text{A}} = 25 ^{\circ}\text{C} \\ \text{at Rated DC Blocking Voltage} & T_{\text{A}} = 125 ^{\circ}\text{C} \\ \end{array} $	I _R	5 50						μΑ
Maximum Reverse recovery time 1)	t _{rr}	50					ns	
Typical Junction Capacitance 2)	CJ	7						pF
Typical Thermal Resistance 3), 4)	$R_{ heta JA} \ R_{ heta JT}$	150 70					°C/W	
Operating and Storage Temperature Range	T_j , T_{stg}	- 65 to + 175						°C

¹⁾ Test conditions: $I_F = 0.5 A$, $I_R = 1 A$, $I_{rr} = 0.25 A$

⁴⁾ Thermal resistance from junction to terminal, 0.24" X 0.24"(6 X 6 mm) copper pads to each terminals.



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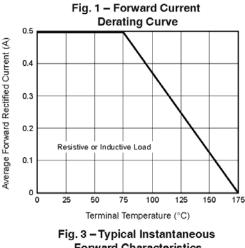






²⁾ Measured at 1 MHz and applied reverse voltage of 4 VDC.

³⁾ Thermal resistance from junction to ambient, 0.24" X 0.24"(6 X 6 mm) copper pads to each terminals.



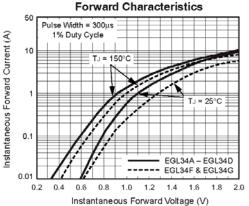


Fig. 5 - Typical Junction Capacitance

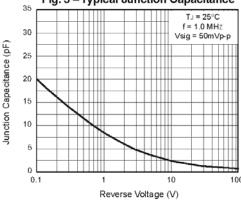


Fig. 2 - Maximum Non-Repetitive Peak

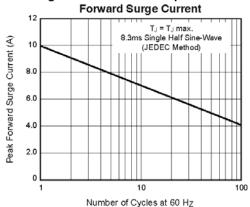
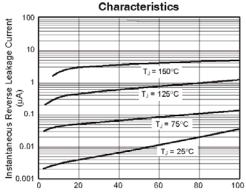
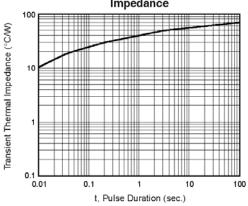


Fig. 4 - Typical Reverse



Percent of Rated Peak Reverse Voltage (%)

Fig. 6 - Typical Transient Thermal Impedance



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