



Dimensions in inches and (millimeters)

SURFACE MOUNT GLASS PASSIVATED SUPER FAST SILICON RECTIFIER VOLTAGE RANGE 50 to 600 Volts CURRENT 1.0 Ampere

JEW RELEA **FEATURES** * Glass passivated device * Ideal for surface mounted applications * Low leakage current * Metallurgically bonded construction * Mounting position: Any SMAL * Weight: 0.057 gram **MECHANICAL DATA** * Epoxy : Device has UL flammability classification 94V-0 0.067 (1 110 (2.79) 0.180 (4.57 160 (4 06 0.012 (0.305) 0.008 (0.203) MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS Ratings at 25 °C ambient temperature unless otherwise specified. Single phase, half wave, 60 Hz, resistive or inductive load. 0.209 (5.31)

For capacitive load, derate current by 20%.

MAXIMUM RATINGS (@ TA=25 °C unless otherwise noted)

RATINGS	SYMBOL	EFM101L	EFM102L	EFM103L	EFM104L	EFM105L	EFM106L	EFM107L	UNITS
Maximum Recurrent Peak Reverse Voltage	V _{RRM}	50	100	150	200	300	400	600	Volts
Maximum RMS Voltage	V _{RMS}	35	70	105	140	210	280	420	Volts
Maximum DC Blocking Voltage	V _{DC}	50	100	150	200	300	400	600	Volts
Maximum Average Forward Rectified Current at $T_A = 55^{\circ}C$	Io	1.0							Amps
Peak Forward Surge Current 8.3 ms single half sine-wave superimposed on rated load (JEDEC method)	IFSM	30							Amps
Typical Thermal Resistance (Note 4)	R _{0JA}	85							°C/W
	R _{0JL}	35							
Typical Junction Capacitance (Note 2)	CJ	15 10					pF		
Operating and Storage Temperature Range	TJ, TSTG	-55 to + 150							٥C

ELECTRICAL CHARACTERISTICS(@TA=25 °C unless otherwise noted)

CHARACTERISTICS		SYMBOL	EFM101L	EFM102L	EFM103L	EFM104L	EFM105L	EFM106L	EFM107L	UNITS
Maximum Instantaneous Forward Voltage at 1.0ADC		VF	0.95				1.25		1.50	Volts
Maximum DC Reverse Current at Rated DC Blocking Voltage	@T _A = 25°C	la.	5.0							
	@T _A = 100°C	- IR	100							μAmps
Maximum Reverse Recovery Time (Note 1)		trr	35				50	nSec		

NOTES : 1. Reverse Recovery Test Conditions: IF = 0.5A, IR = -1.0A, IRR = -0.25A

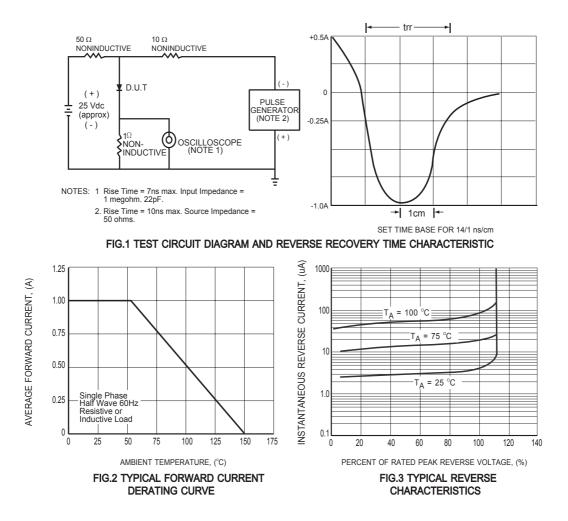
2. Measured at 1 MHz and applied reverse voltage of 4.0 volts

3. "Fully ROHS compliant", "100% Sn plating (Pb-free)".

4. Thermal Resistance : Mounted on PCB.

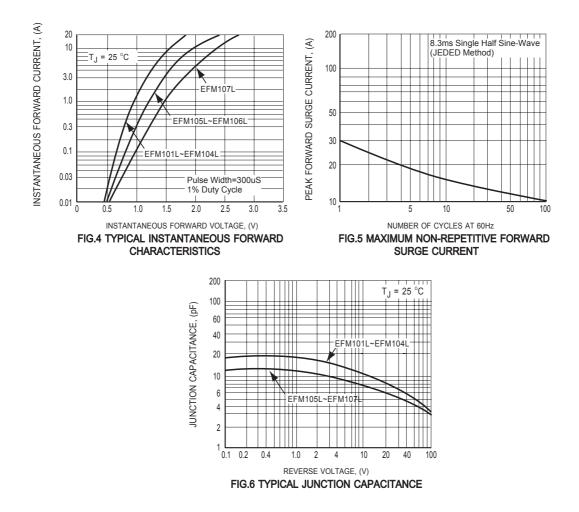
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RATING AND CHARACTERISTICS CURVES (EFM101L THRU EFM107L)



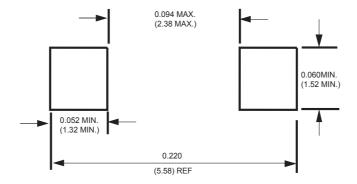








Mounting Pad Layout



Dimensions in inches and (millimeters)



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