



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

NEW RELEASE **FEATURES** * Glass passivated device * Ideal for surface mounted applications * Low leakage current * Metallurgically bonded construction * Mounting position: Any SMAL * Weight: 0.057 gram 0.110 (2.79) **MECHANICAL DATA** * Epoxy: Device has UL flammability classification 94V-O 0.012 (0.305) 0.067 (1.70) 0.059 (1.50) 0.008 (0.203) MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS 0.035 (0.89)

Ratings at 25 °C ambient temperature unless otherwise specified.

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

Dimensions in inches and (millimeters)

0.209 (5.31)

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

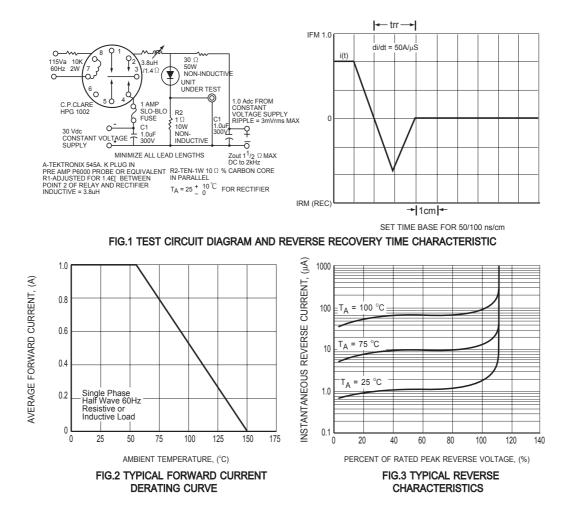
RATINGS	SYMBOL	FM4933L	FM4934L	FM4935L	FM4936L	FM4937L	UNITS
Maximum Recurrent Peak Reverse Voltage	V _{RRM}	50	100	200	400	600	Volts
Maximum RMS Voltage	V _{RMS}	35	70	140	280	420	Volts
Maximum DC Blocking Voltage	V _{DC}	50	100	200	400	600	Volts
Maximum Average Forward Rectified Current at $T_A = 55^{\circ}C$	Ι _Ο	1.0					Amps
Peak Forward Surge Current 8.3 ms single half sine-wave superimposed on rated load (JEDEC method)	I _{FSM}	30					Amps
Typical Thermal Resistance (Note 1)	R _{θJL}	30				°C/W	
Typical Thermal Resistance (Note 1)	RθJA	70				°C/W	
Typical Junction Capacitance (Note 2)	CJ	15				pF	
Operating Temperature Range	TJ	150				°C	
Storage Temperature Range	T _{STG}	-55 to + 150					٥C

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

CHARACTERISTICS		SYMBOL	FM4933L	FM4934L	FM4935L	FM4936L	FM4937L	UNITS
Maximum Instantaneous Forward Voltage at 1.0A DC		VF	1.2					Volts
Maximum Full Load Reverse Current, Full cycle Average T_A =55°C		l _R	50					μA
Maximum Average Reverse Current	@T _A = 25°C	, 'K	2					
at Rated DC Blocking Voltage	@T _A = 100°C				100			μA
Maximum Reverse Recovery Time (Note 4)		trr	200					nSec
NOTES: 1. Thermal Resistance : Mounted on PCB.							2006-12	

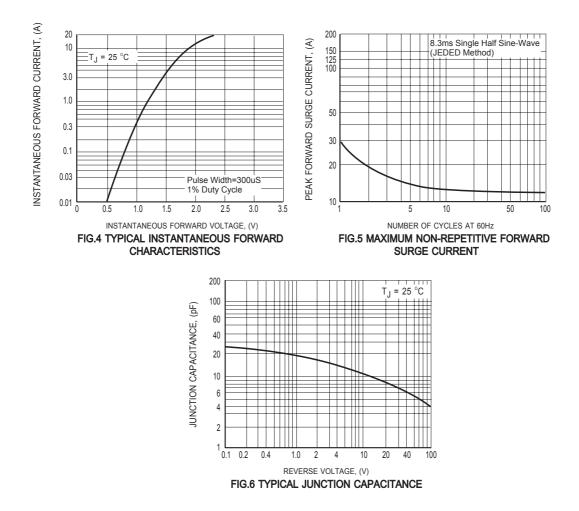
 $2. \ \mbox{Measured at 1 MHz and applied reverse voltage of 4.0 volts. } \\ 3. "Fully ROHS compliant", "100% Sn plating (Pb-free)". \\ 4. \ \mbox{Test Conditions: } I_F=0.5A, I_R=-1.0A, I_RR=-0.25A. \\$

RATING AND CHARACTERISTICS CURVES (FM4933L THRU FM4937L)



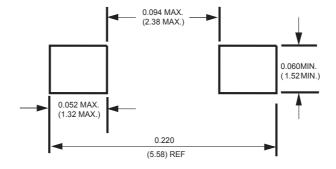


RATING AND CHARACTERISTICS CURVES (FM4933L THRU FM4937L)



CRECTRON —

Mounting Pad Layout



Dimensions in inches and (millimeters)



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