



SURFACE MOUNT FAST RECOVERY SILICON RECTIFIER VOLTAGE RANGE 200 to 600 Volts CURRENT 1.0 Ampere

FEATURES

- * Glass passivated device
- * Ideal for surface mounted applications
- * Low leakage current
- * Metallurgically bonded construction
- * Mounting position: Any
- * Weight: 0.057 gram

MECHANICAL DATA

* Epoxy: Device has UL flammability classification 94V-O



Dimensions in inches and (millimeters)

MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

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%.

MAXIMUM RATINGS (@ TA=25 °C unless otherwise noted) SYMBOL FM4935W FM4936W FM4937W UNITS RATINGS Maximum Recurrent Peak Reverse Voltage V_{RRM} 200 400 600 Volts Maximum RMS Voltage V_{RMS} 140 280 420 Volts Maximum DC Blocking Voltage VDC 200 400 600 Volts Maximum Average Forward Rectified Current l_o 1.0 Amps at T_A = 55°C Peak Forward Surge Current 8.3 ms single half sine-wave 30 Amps IESM superimposed on rated load (JEDEC method) Typical Thermal Resistance (Note 1) $R_{\theta JL}$ 30 °C/W Typical Thermal Resistance (Note 1) $R_{\,\theta\,J\,A}$ 70 °C/W Typical Junction Capacitance (Note 2) CJ 15 рF Operating Temperature Range T_J 150 ⁰ C ⁰ C Storage Temperature Range T_{STG} -55 to + 150

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

CHARACTERISTICS			FM4935W	FM4936W	FM4937W	UNITS
Maximum Instantaneous Forward Voltag	VF	1.2				
Maximum Full Load Reverse Current, Full cycle Average T _A =55°C		la la	50			uA
Maximum Average Reverse Current	@T _A = 25°C	, 'K	5			
at Rated DC Blocking Voltage	@T _A = 100°C		100			uA
Maximum Reverse Recovery Time (Note 4)		trr	200			nSec

NOTES: 1. Thermal Resistance : Mounted on PCB.

2. Measured at 1 MHz and applied reverse voltage of 4.0 volts. 3. "Fully ROHS compliant", "100% Sn plating (Pb-free)".

4. Test Conditions: I_F= 1.0A, V_R= 30V.

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RATING AND CHARACTERISTICS CURVES (FM4935W THRU FM4937W)













Mounting Pad Layout



Dimensions in inches and (millimeters)



PACKAGING OF DIODE AND BRIDGE RECTIFIERS

REEL PACK

PACKAGE	PACKING CODE	EA PER REEL	EA PER INNER BOX	COMPONENT SPACE (mm)	TAPE SPACE (mm)	REEL DIA (mm)	CARTON SIZE (mm)	EA PER CARTON	GROSS WEIGHT(Kg)
SMX	-T	1,500	6,000			178	390*205*310	48,000	
SMX	-W	5,000	10,000			330	360*355*360	80,000	15.20

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