

SURFACE MOUNT SCHOTTKY BARRIER RECTIFIER

VOLTAGE 45 Volts CURRENT 3.0 Amperes

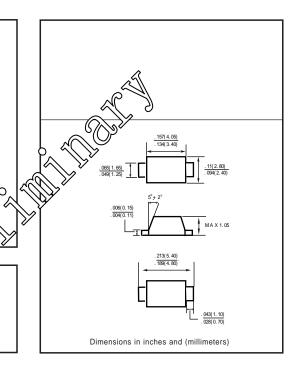
FEATURES

- * Ideal for surface mounted applications
- * Low leakage current
- * Metallurgically bonded construction
- * Mounting position: Any

MECHANICAL DATA

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

MAXIMUM RATINGS AND ELECTRICAL CA Ratings at 25 °C ambient temperature unless otherwis Single phase, resistive or inductive load.



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

RATINGS	SYMBOL	FM345F	UNITS
Maximum Recurrent Peak Reverse Voltage	V_{RRM}	45	Volts
Maximum RMS Voltage	V _{RMS}	31.5	Volts
Maximum DC Blocking Voltage	V _{DC}	45	Volts
Max Avg Forword Rectify Current at Ambient Temp needs To be corrected to Lead Temperature,TL=100°C	Io	3.0	Amps
Peak Forward Surge Current 8.3 ms single half sine-wave superimposed on rated load (JEDEC method)	I _{FSM}	80	Amps
Typical Current Square Time	I ² T	26.5	A ² S
Typical Thermal Resistance (Note 1)	R _{θJA}	55	00.04
	R _{θJL}	17	°C/W
Typical Junction Capacitance (Note 2)	CJ	200	pF
Operating Temperature Range	TJ	150	°C
Storage Temperature Range	T _{STG}	-55 to + 150	°C

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

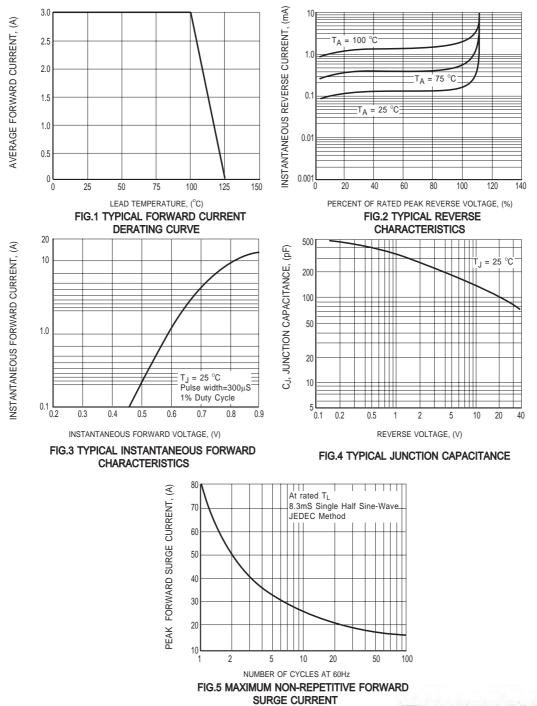
CHARACTERISTICS		SYMBOL	FM345F	UNITS
Maximum Instantaneous Forward Voltage at 3.0A DC		V _F	.65	Volts
Maximum Average Reverse Current	@T _A = 25°C	I _R	0.2	m A
at Rated DC Blocking Voltage	@T _A = 100°C		2	mΑ

NOTES: 1. Thermal Resistance: Mounted on PCB.

- 2. Measured at 1 MHz and applied reverse voltage of 4.0 volts.
- "Fully ROHS compliant", "100% Sn plating (Pb-free)".
 Available in Halogen-free epoxy by adding suffix -HF after the part no

2013-01 REV: O

RATING AND CHARACTERISTICS CURVES (FM345F)





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