



SURFACE MOUNT SCHOTTKY BARRIER RECTIFIER

VOLTAGE RANGE 20 to 200 Volts CURRENT 1.0 Ampere

FEATURES

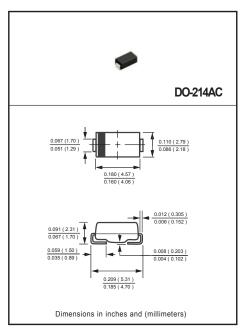
- * Low switching noise
- * Low forward voltage drop
- * High current capability
- * High switching capability
- * High surge capabitity
- * High reliability

MECHANICAL DATA

- * Case: Molded plastic
- * Epoxy: Device has UL flammability classification 94V-O
- * Lead: MIL-STD-202E method 208C guaranteed
- * Metallurgically bonded construction
- * Mounting position: Any
- * Weight: 0.09 gram

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)

RATINGS	SYMBOL	FM120	FM130	FM140	FM150	FM160	FM180	FM1100	FM1150	FM1200	UNITS
Maximum Recurrent Peak Reverse Voltage	V _{RRM}	20	30	40	50	60	80	100	150	200	Volts
Maximum RMS Voltage	V _{RMS}	14	21	28	35	42	56	70	105	140	Volts
Maximum DC Blocking Voltage	V _{DC}	20	30	40	50	60	80	100	150	200	Volts
Maximum Average Forward Rectified Current at Derating Case Temperature	Ι _Ο	1.0						Amps			
Peak Forward Surge Current 8.3 ms single half sine-wave superimposed on rated load (JEDEC method)	I _{FSM}	40						Amps			
Typical Thermal Resistance (Note 1)	R _{θJA}	85						°C/W			
Typical Thermal Resistance (Note 1)	R _{θJL}	25						°C/W			
Typical Junction Capacitance (Note 2)	CJ	110						pF			
Operating Temperature Range	TJ	150						۰C			
Storage Temperature Range	T _{STG}	-55 to + 150						۰C			

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

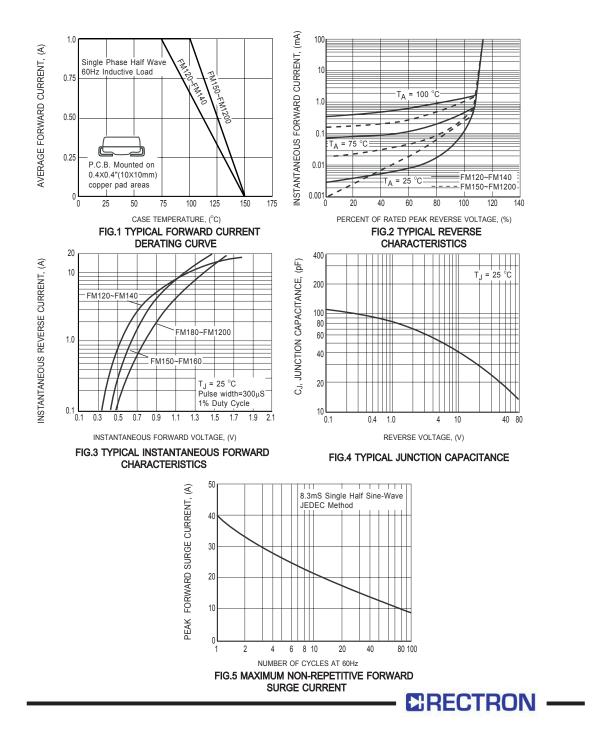
CHARACTERISTICS		SYMBOL	FM120 FM130 FM140	FM150 FM160	FM180 FM1100	FM1150 FM1200	UNITS			
Maximum Instantaneous Forward Voltage at 1.0A DC		VF	.55	.70		.85	Volts			
Maximum Average Reverse Current	@T _A = 25°C		0.2							
at Rated DC Blocking Voltage	@T _A = 100°C	^I R	2							
NOTES: 1. Thermal Resistance : Mounted on PCB.										

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

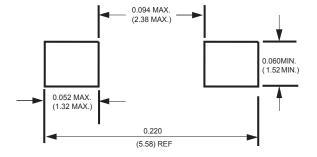
3. Also available in DO-214AA (SMB).

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





Mounting Pad Layout



Dimensions in inches and (millimeters)



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