

FM220A **THRU** FM2100A

SURFACE MOUNT SCHOTTKY BARRIER RECTIFIER

VOLTAGE RANG 20 to 100 Volts CURRENT 2.0 Ampere

FEATURES

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

MECHANICAL DATA

* Case: Molded plastic

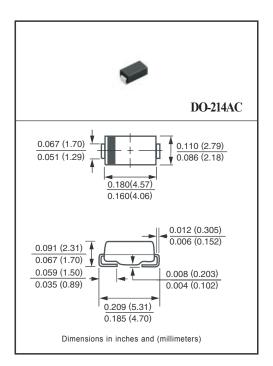
* Epoxy:Device has UL flammability classification 94V-O

*Lead: MIL-STD-202E method 208C guaranteed

* Mounting position: Any *Weight: 0.09gram

MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Ratings at 25 $^{\circ}\text{C}$ 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)

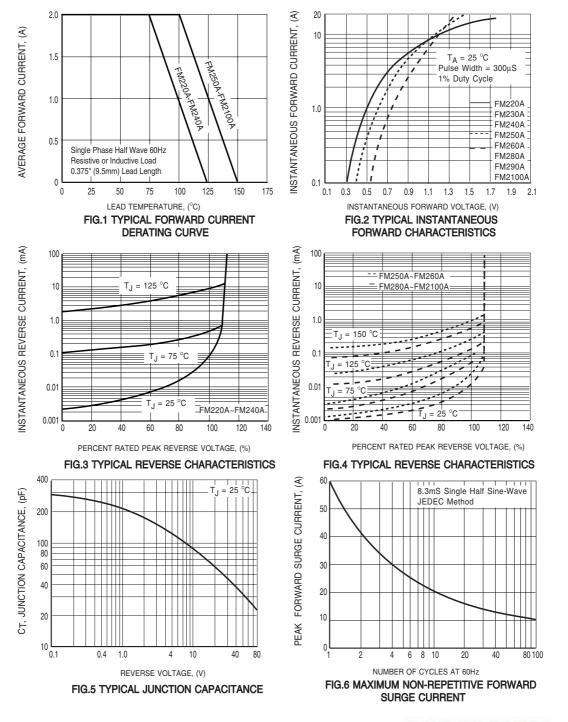
MAXIMUM RATINGS (@ TA=25 °C unless otherwise noted)										
RATINGS	SYMBOL	FM220A	FM230A	FM240A	FM250A	FM260A	FM280A	FM290A	FM2100A	UNITS
Maximum Recurrent Peak Reverse Voltage	VRRM	20	30	40	50	60	80	90	100	Volts
Maximum RMS Voltage	VRMS	14	21	28	35	42	56	63	70	Volts
Maximum DC Blocking Voltage	V _{DC}	20	30	40	50	60	80	90	100	Volts
Maximum Average Forward Rectified Current @ Tr=120°C	Io	2.0								Amps
Peak Forward Surge Current 8.3 ms single half sine-wave superimposed on rated load (JEDEC method)	I _{FSM}	60								Amps
Thermal Resistance Junction to Ambient	RθJA	40								°C/W
Total Capacitance	CJ	130								pF
Operating Temperature Range	TJ	-55 to + 125								٥C
Storage Temperature Range	Тѕтс	-55 to + 150								٥C

FLECTRICAL CHARACTERISTICS (@Ta=25 °C unless otherwise noted)

ELECTRICAL CHARACTERISTICS (STA-25) O difference noted)											
CHARACTERISTICS		SYMBOL	FM220A	FM230A	FM240A	FM250A	FM260A	FM280A	FM290A	FM2100A	UNITS
Maximum Instantaneous Forward Voltage at 2.	Maximum Instantaneous Forward Voltage at 2.0A DC			0.55		0.70		0.85		Volts	
Maximum Average Reverse Current	@Ta = 25°C	la.	0.2								mAmps
at Rated DC Blocking Voltage	@Ta = 100°C	IH IH	2.0								mAmps

NOTES: 1. Measured at 1 MHz and applied reverse voltage of 10 volts.
2. "Fully ROHS compliant", "100% Sn plating (Pb-free)".

RATING AND CHARACTERISTICS CURVES (FM220A THRU FM2100A)





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