

FM220A THRU FM2100A

SURFACE MOUNT SCHOTTKY BARRIER RECTIFIER

VOLTAGE RANG 20 to 100 Volts CURRENT 2.0 Ampere

FEATURES

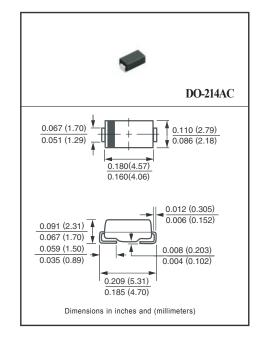
- * Low swiching noise
- * Low forward voltage drop
- * High current capability
- * High speed switching
- * High surge capabitity
- * High reliability

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 BATINGS (@ Ta=25 °C unless otherwise noted)

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SYMBOL	FM220A	FM230A	FM240A	FM250A	FM260A	FM280A	FM290A	FM2100A	UNITS
VRRM	20	30	40	50	60	80	90	100	Volts
VRMS	14	21	28	35	42	56	63	70	Volts
V _{DC}	20	30	40	50	60	80	90	100	Volts
Io	2.0							Amps	
I _{FSM}	60							Amps	
RθJA	40						°C/W		
Cı	130							pF	
TJ	-55 to + 125 -55 to + 150						٥C		
Toto							٥C		
	VRRM VRMS VDC IO IFSM R 0 JA CJ	VRRM 20 VRMS 14 VDC 20 IO IFSM RθJA CJ TJ	VRRM 20 30 VRMS 14 21 VDC 20 30 IO I _{FSM} RθJA CJ TJ	VRMS 20 30 40 VRMS 14 21 28 VDC 20 30 40 IO IFSM R 0 JA C J T J	VRMS 20 30 40 50 VRMS 14 21 28 35 VDC 20 30 40 50 IO IFSM R 0 JA CJ TJ -55	VRRM 20 30 40 50 60 VRMS 14 21 28 35 42 VDC 20 30 40 50 60 IO 2.0 I _{FSM} 60 RθJA 40 CJ 130 TJ -55 to + 125	Virgin V	Virgin 20 30 40 50 60 80 90	VRRM 20 30 40 50 60 80 90 100 VRMS 14 21 28 35 42 56 63 70 VDC 20 30 40 50 60 80 90 100 IO 2.0 I _{FSM} 60 60 80 90 100 RθJA 40 40 40 60 60 7 7 7 -55 to + 125 60 60 80 90 100 90

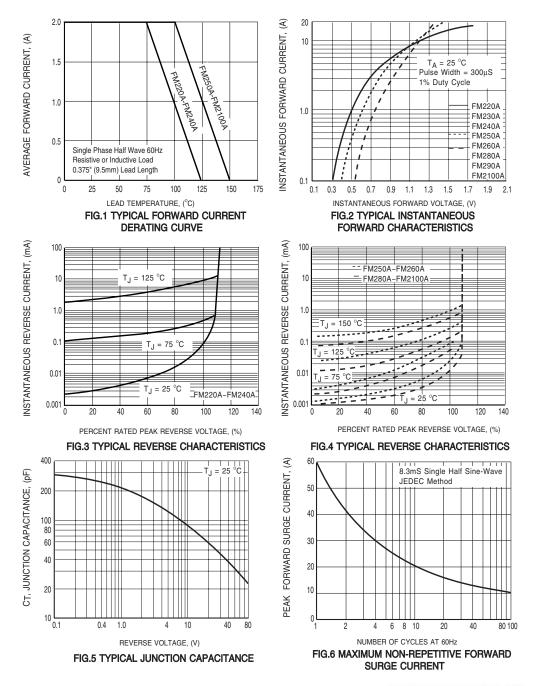
ELECTRICAL CHARACTERISTICS(@TA=25 °C unless otherwise noted)

CHARACTERISTICS	SYMBOL	FM220A	FM230A	FM240A	FM250A	FM260A	FM280A	FM290A	FM2100A	UNITS	
Maximum Instantaneous Forward Voltage at 2.0	aximum Instantaneous Forward Voltage at 2.0A DC		0.55		0.70		0.85		Volts		
Maximum Average Reverse Current	@Ta = 25°C	<u> </u>	0.2								mAmps
at Rated DC Blocking Voltage	@Ta = 100°C	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)".

2006-11

RATING AND CHARACTERISTICS CURVES (FM220A THRU FM2100A)





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