

SURFACE MOUNT SCHOTTKY BARRIER RECTIFIER

VOLTAGE RANG 20 to 100 Volts CURRENT 2.0 Ampere

FEATURES

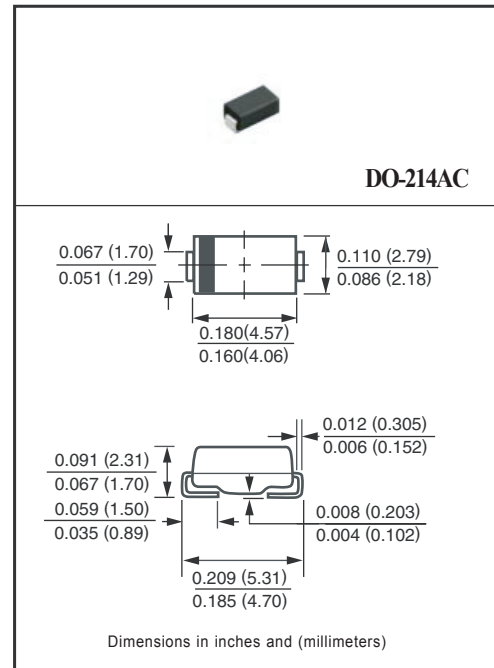
- * Low switching noise
- * Low forward voltage drop
- * High current capability
- * High speed switching
- * High surge capability
- * High reliability

MECHANICAL DATA

- * Case: Molded plastic
- * Epoxy: Device has UL flammability classification 94V-0
- * Lead: MIL-STD-202E method 208C guaranteed
- * Mounting position: Any
- * Weight: 0.09gram

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	FM220A	FM230A	FM240A	FM250A	FM260A	FM280A	FM290A	FM2100A	UNITS
Maximum Recurrent Peak Reverse Voltage	V _{RRM}	20	30	40	50	60	80	90	100	Volts
Maximum RMS Voltage	V _{RMS}	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 @ T _T =120°C	I _O	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	R _{θJA}	40								°C/W
Total Capacitance	C _J	130								pF
Operating Temperature Range	T _J	-55 to + 125								°C
Storage Temperature Range	T _{STG}	-55 to + 150								°C

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

CHARACTERISTICS	SYMBOL	FM220A	FM230A	FM240A	FM250A	FM260A	FM280A	FM290A	FM2100A	UNITS
Maximum Instantaneous Forward Voltage at 2.0A DC	V _F	0.55			0.70		0.85			Volts
Maximum Average Reverse Current	I _R	0.2								mAmps
at Rated DC Blocking Voltage		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)

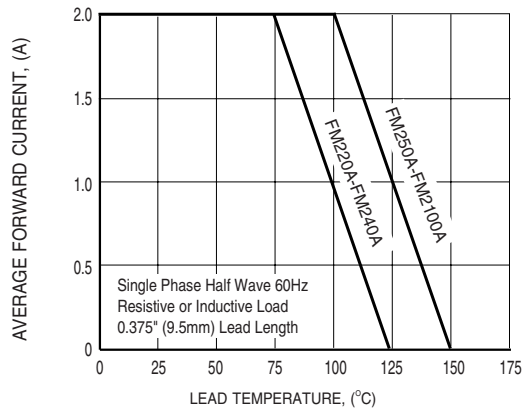


FIG.1 TYPICAL FORWARD CURRENT DERATING CURVE

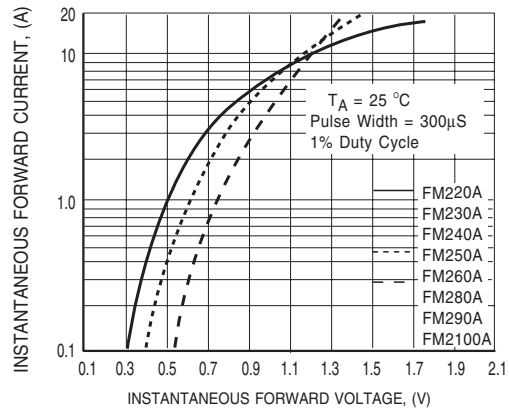


FIG.2 TYPICAL INSTANTANEOUS FORWARD CHARACTERISTICS

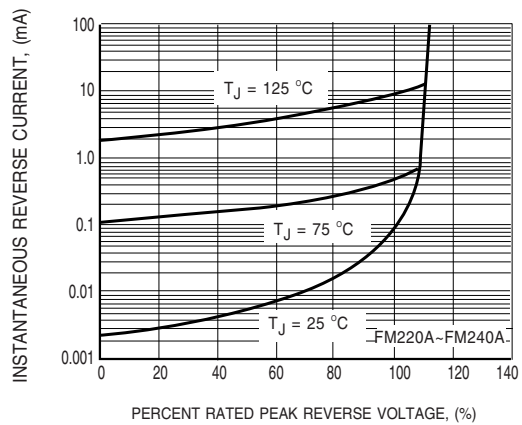


FIG.3 TYPICAL REVERSE CHARACTERISTICS

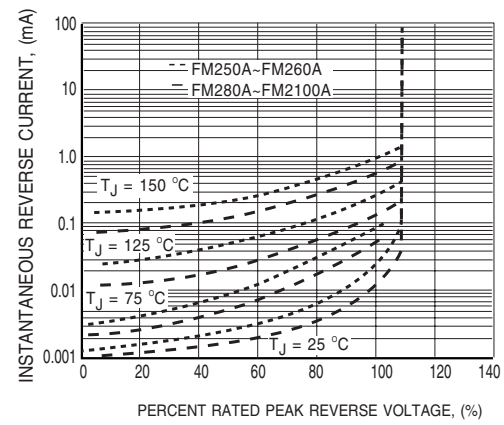


FIG.4 TYPICAL REVERSE CHARACTERISTICS

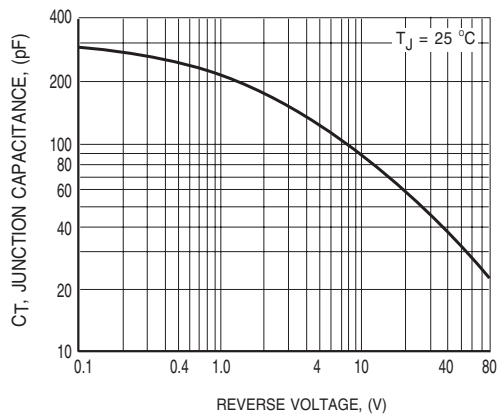


FIG.5 TYPICAL JUNCTION CAPACITANCE

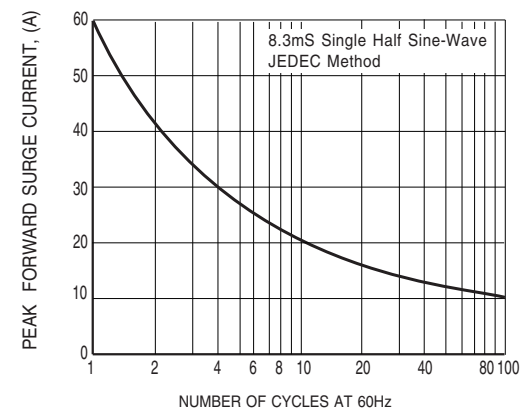


FIG.6 MAXIMUM NON-REPETITIVE FORWARD SURGE CURRENT

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