



FM220-M **THRU** FM2200-M

2.0A SURFACE MOUNT SCHOTTKY BARRIER RECTIFIERS -20V- 200V SOD-123-L PACKAGE

FEATURES

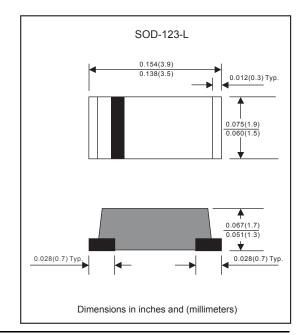
- * Batch process design, excellent power dissipation offers better reverse leakage current and thermal resistance.
- * Low profile surface mounted application in order to optimize board space.
- * Low power loss, high efficiency.
- * High current capability, low forward voltage drop.
- * High surge capability.
- * Ultra high-speed switching.
- * Lead-free parts meet environmental standars of MIL-STD-19500/228
- * RoHS product for packing code suffix "G" Halogen free product for packing code suffix "H"

MECHANICAL DATA

Case: Molded plastic, SOD-123-L Epoxy: UL 94V-O rate flame retardant Terminals: Solder plated, solderable per MIL-STD-750, Method 2026.

Mounting position: Any

Weight: Approximated 0.018 gram.



MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Ratings at 25°C ambient temperature unless otherwise specified.

Single phase half wave, 60Hz, resistive of inductive load.

For capacitive load, derate current by 20%

RATINGS	SYMBOL	FM220-M	FM230-M	FM240-M	FM250-M	FM260-M	FM280-M	FM2100-M	FM2150-M	FM2200-M	UNIT
Marking Code		22	23	24	25	26	28	20	215	220	
Maximum Recurrent Peak Reverse Voltage	VRRM	20	30	40	50	60	80	100	150	200	Volts
Maximum RMS Voltage	VRMS	14	21	28	35	42	56	70	105	140	Volts
Maximum DC Blocking Voltage	VDC	20	30	40	50	60	80	100	150	200	Volts
Maximum Average Forward Rectified Current	lo	2.0							Amps		
Peak Forward Surge Current 8.3 ms single half sine-wave superimposed on rated load (JEDEC method)	IFSM	50							Amps		
Typical Thermal Resistance (Note 2)	Roja	85							°C/W		
Typical Junction Capacitance (Note 1)	CJ	160							РF		
Operating Temperature Range	TJ	-55 to +125 -55 to +150					°C				
Storage Temperature Range	TSTG	-55 to +150						°C			

CHARACTERISTICS		SYMBOL	FM220-M	FM230-M	FM240-M	FM250-M	FM260-M	FM280-M	FM2100-M	FM2150-M	FM2200-M	UNIT
Maximum Forward Voltage at 2.0A DC		VF	0.50		0.70		0.85		0.92		Volts	
Maximum Average Reverse Current at	@TJ=25°C	In.	0.5									mAmps
Rated DC Blocking Voltage	@TJ=100°C	IK	10									

NOTES:

- 1- Measured at 1 MHZ and applied reverse voltage of 4.0 VDC.
- 2- Thermal Resistance From Junction to Ambient





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RATING AND CHARACTERISTIC CURVES

FIG.1-TYPICAL FORWARD CURRENT DERATING CURVE

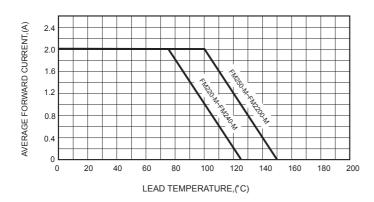


FIG.3-MAXIMUM NON-REPETITIVE FORWARD SURGE CURRENT

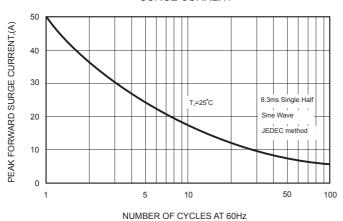


FIG.4-TYPICAL JUNCTION CAPACITANCE

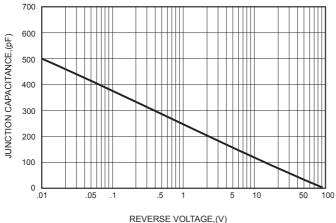


FIG.2-TYPICAL FORWARD

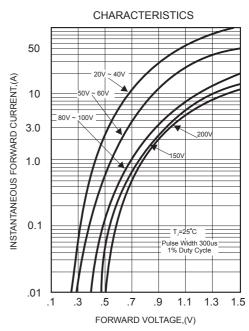
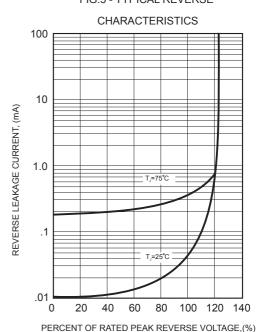


FIG.5 - TYPICAL REVERSE







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Ordering Information:

Device PN	Packing
Part Number -T ⁽¹⁾ G ⁽²⁾ -WS	Tape & Reel Packing :2500pcs/Reel

Note: 1. Packing code, T: Tape & 7" Reel Packing;

2. RoHS product for packing code suffix "G", Halogen free product for packing code suffix "H" .

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