



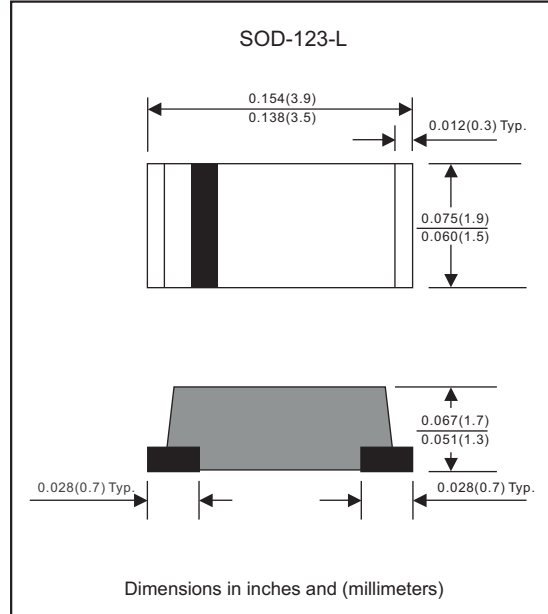
Forward Current : 2.0A
Reverse Voltage : 20V-200V

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%

	Symbols	FM220-M	FM230-M	FM240-M	FM250-M	FM260-M	FM280-M	FM2100-M	FM2150-M	FM2200-M	Units
Marking Code		22	23	24	25	26	28	210	215	220	
Maximum Recerrent Peak Reverse Voltage	V_{RRM}	20	30	40	50	60	80	100	150	200	V
Maximum RMS Voltage	V_{RMS}	14	21	28	35	42	56	70	105	140	V
Maximum DC Blocking Voltage	V_{DC}	20	30	40	50	60	80	100	150	200	V
Maximum Average Forward Rectified Current	I_O	2.0									A
Peak Forward Surge Current, 8.3ms single half-sine-wave, superimposed on rated load (JEDEC method)	I_{FSM}	50.0									A
Maximum Forward Voltage at 2.0A	V_F	0.5		0.70		0.85		0.92			V
Maximum Reverse Current at $T_A=25^{\circ}C$ at Rated DC Blocking Voltag $T_A=100^{\circ}C$	I_R	0.5									mA
		10.0									
Typical Junction Capacitance (Note 1)	C_J	160									pF
Typical Thermal Resistance (Note 2)	$R_{\theta JA}$	85.0									°C/W
Operating Junction Temperature Range	T_J	-55 to +125			-55 to +150						°C
Storage Temperature Range	T_{stg}	-55 to +150									°C

NOTES:

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



Ratings and Characteristic Curves

FIG.1-TYPICAL FORWARD CURRENT DERATING CURVE

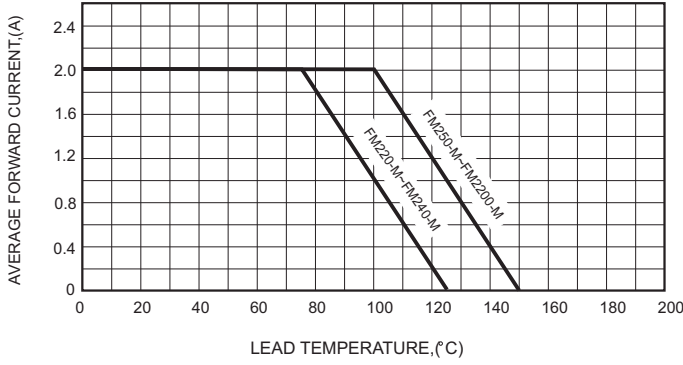


FIG.2-TYPICAL FORWARD CHARACTERISTICS

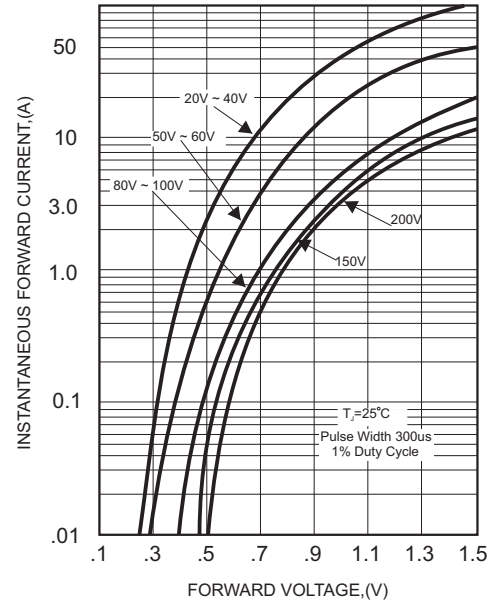


FIG.3-MAXIMUM NON-REPETITIVE FORWARD

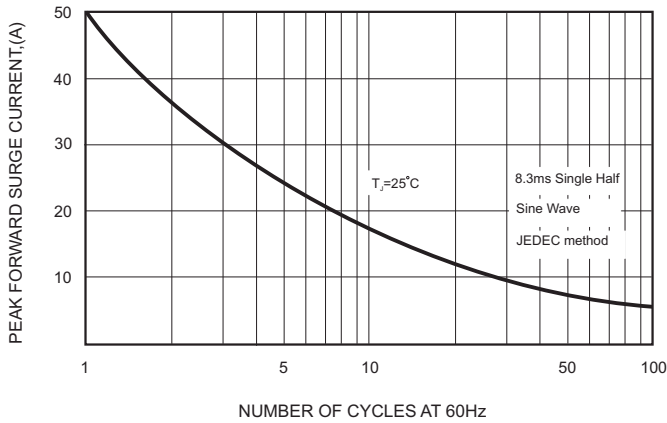


FIG.5 - TYPICAL REVERSE CHARACTERISTICS

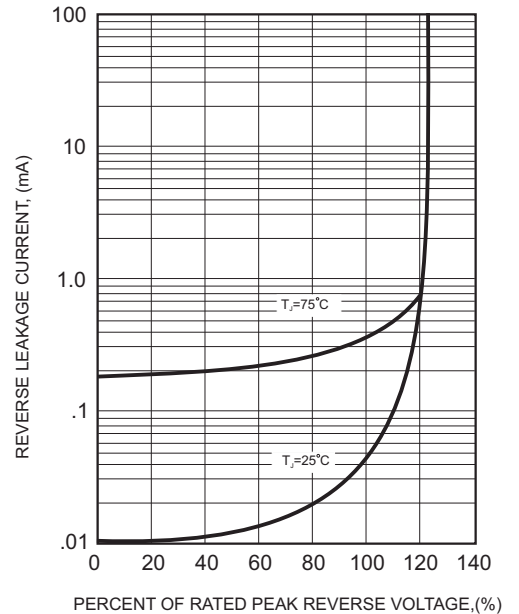
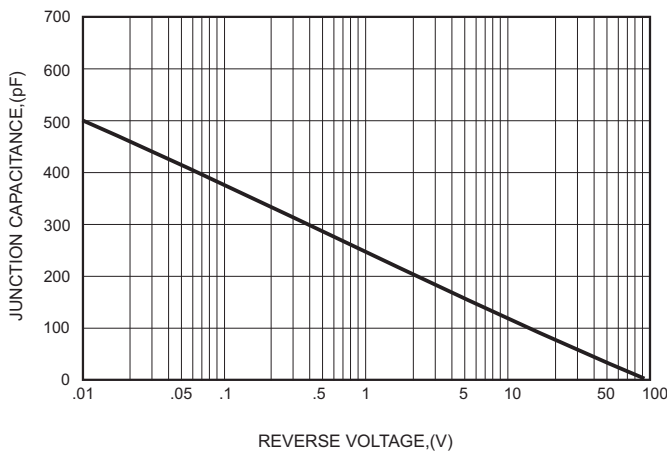


FIG.4-TYPICAL JUNCTION CAPACITANCE



**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" .