

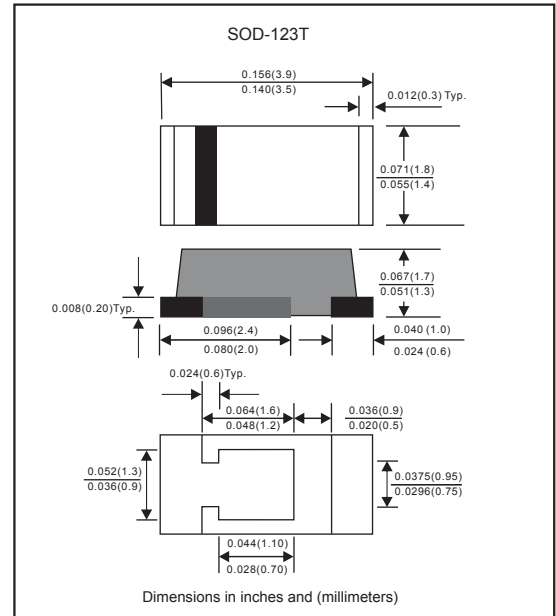
**3.0A SURFACE MOUNT SCHOTTKY BARRIER RECTIFIERS -20V- 100V
SOD-123T PACKAGE**

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 standards 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-123T
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 or inductive load.
For capacitive load, derate current by 20%

RATINGS	SYMBOL	FM320-MT	FM330-MT	FM340-MT	FM350-MT	FM360-MT	FM380-MT	FM3100-MT	UNIT
Marking Code		32	33	34	35	36	38	310	
Maximum Recurrent Peak Reverse Voltage	V _{RRM}	20	30	40	50	60	80	100	Volts
Maximum RMS Voltage	V _{RMS}	14	21	28	35	42	56	70	Volts
Maximum DC Blocking Voltage	V _{DC}	20	30	40	50	60	80	100	Volts
Maximum Average Forward Rectified Current	I _O	3.0							Amps
Peak Forward Surge Current 8.3 ms single half sine-wave superimposed on rated load (JEDEC method)	I _{FSM}	50							Amps
Typical Thermal Resistance (Note 2)	R _{θJC}	30							°C/W
Typical Junction Capacitance (Note 1)	C _J	250							pF
Operating Temperature Range	T _J	-55 to +125			-55 to +150				°C
Storage Temperature Range	T _{STG}	-55 to +150							°C

CHARACTERISTICS	SYMBOL	FM320-MT	FM330-MT	FM340-MT	FM350-MT	FM360-MT	FM380-MT	FM3100-MT	UNIT
Maximum Forward Voltage at 3.0A DC	V _F	0.50			0.70		0.85		Volts
Maximum Average Reverse Current at Rated DC Blocking Voltage	I _R	0.2							mAmps
		20							

- NOTES:
- 1- Measured at 1 MHz and applied reverse voltage of 4.0 VDC.
 - 2- Thermal Resistance From Junction to Case

RATING AND CHARACTERISTIC CURVES

FIG.1-TYPICAL FORWARD CURRENT DERATING CURVE

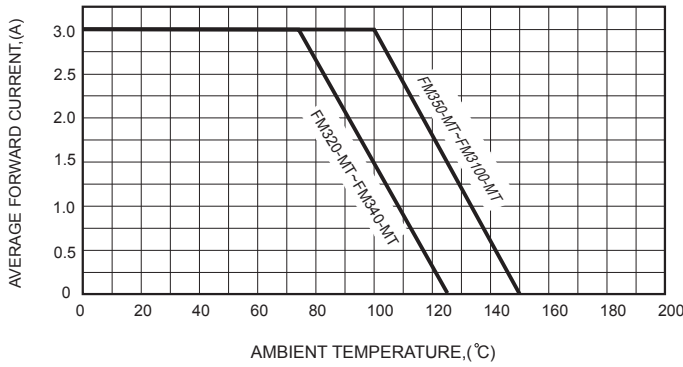


FIG.2-TYPICAL FORWARD CHARACTERISTICS

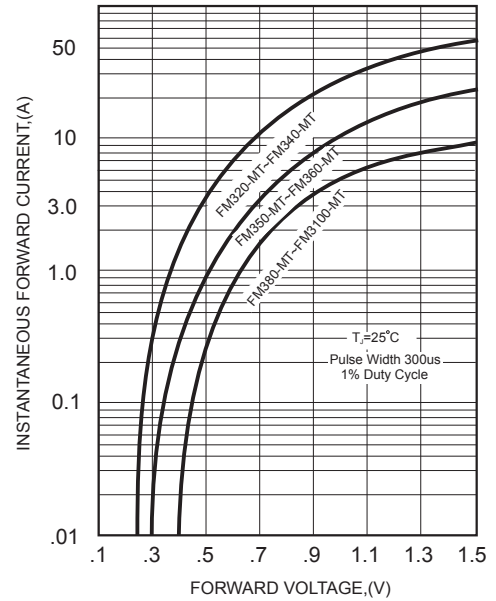


FIG.3-MAXIMUM NON-REPETITIVE FORWARD SURGE CURRENT

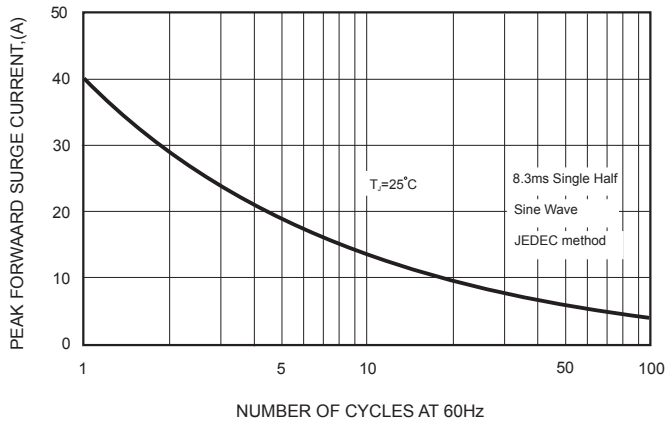


FIG.5 - TYPICAL REVERSE CHARACTERISTICS

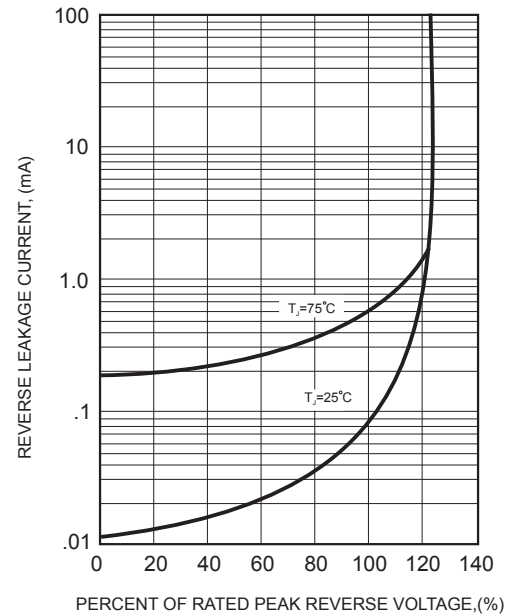


FIG.4-TYPICAL JUNCTION CAPACITANCE

