

FM4001-M THRU FM4007-M

Glass passivated type

Features

- Plastic package has Underwriters Laboratory Flammability Classification 94V-O Utilizing Flame Retardant Epoxy Molding Compound.
- For surface mounted applications.
- Exceeds environmental standards of ML-S-19500 / 228
- Low leakage current

Mechanical data

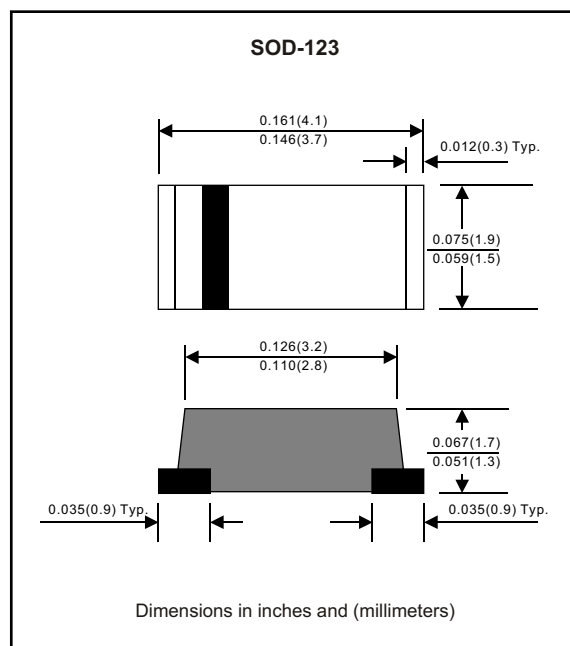
Case : Molded plastic, JEDEC SOD-123 / MINI-SMA

Terminals : Solder plated, solderable per ML-STD-750,
Method 2026

Polarity : Indicated by cathode band

Mounting Position : Any

Weight : 0.04 gram



MAXIMUM RATINGS (AT $T_A=25^{\circ}\text{C}$ unless otherwise noted)

PARAMETER	CONDITIONS	Symbol	MIN.	TYP.	MAX.	UNIT
Forward rectified current	See Fig.2	I_O			1.0	A
Forward surge current	8.3ms single half sine-wave superimposed on rate load (JEDEC methode)	I_{FSM}			30	A
Reverse current	$V_R = V_{RRM}$ $T_A = 25^{\circ}\text{C}$	I_R			5.0	μA
	$V_R = V_{RRM}$ $T_A = 100^{\circ}\text{C}$				50	μA
Thermal resistance	Junction to ambient	R_{thJA}		60		$^{\circ}\text{C} / \text{w}$
	Junction to case	R_{thJC}		30		
Diode junction capacitance	f=1MHz and applied 4vDC reverse voltage	C_J		15		pF
Storage temperature		T_{STG}	-55		+150	$^{\circ}\text{C}$

SYMBOLS	MARKING CODE	V_{RRM}^{*1} (V)	V_{RMS}^{*2} (V)	V_R^{*3} (V)	V_F^{*4} (V)	Operating temperature ($^{\circ}\text{C}$)
FM4001-M	A1	50	35	50	1.1	-55 to +150
FM4002-M	A2	100	70	100		
FM4003-M	A3	200	140	200		
FM4004-M	A4	400	280	400		
FM4005-M	A5	600	420	600		
FM4006-M	A6	800	560	800		
FM4007-M	A7	1000	700	1000		

*1 Repetitive peak reverse voltage

*2 RMS voltage

*3 Continuous reverse voltage

*4 Maximum forward voltage

RATING AND CHARACTERISTIC CURVES (FM4001-M THRU FM4007-M)

FIG.1-TYPICAL FORWARD
CHARACTERISTICS

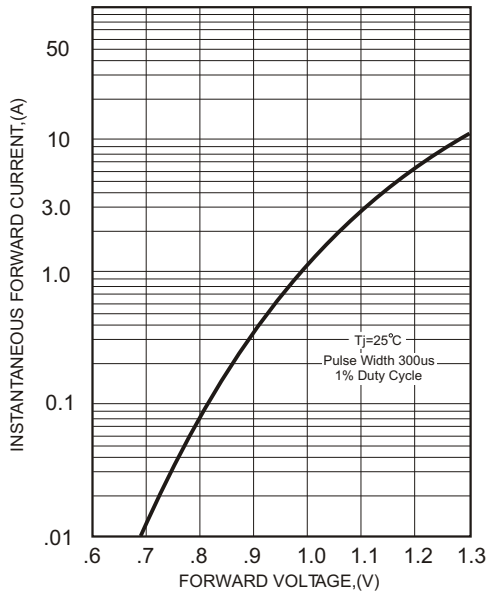


FIG.2-TYPICAL FORWARD CURRENT DERATING CURVE

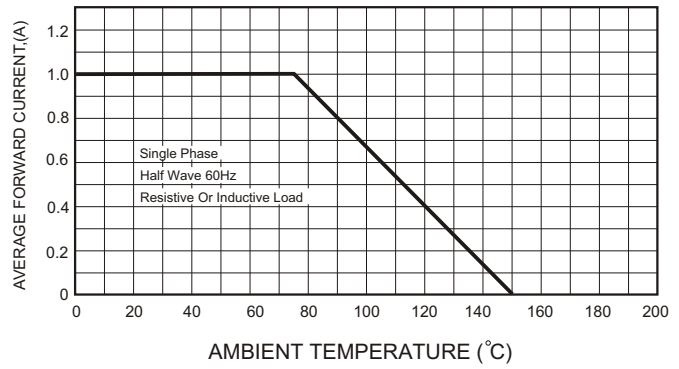


FIG.4-MAXIMUM NON-REPETITIVE FORWARD
SURGE CURRENT

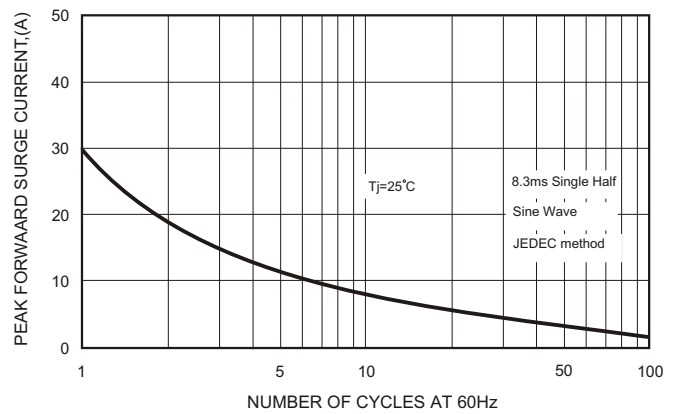


FIG.3 - TYPICAL REVERSE
CHARACTERISTICS

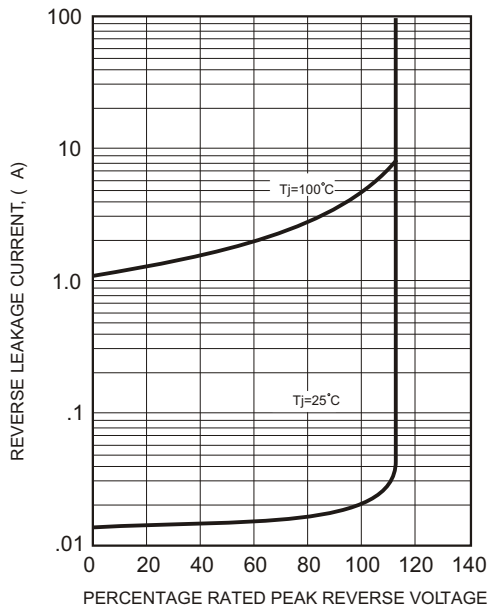


FIG.5-TYPICAL JUNCTION CAPACITANCE

