

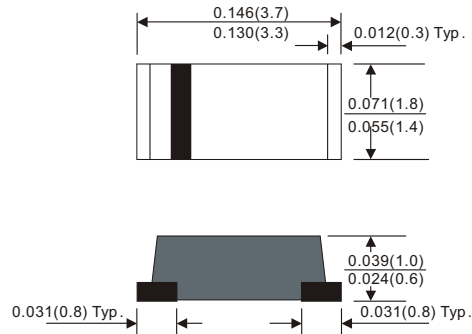
FM4001-MH thru FM4007-MH

SURFACE MOUNT STANDARD RECOVERY RECTIFIER

VOLTAGE - 50 TO 1000 VOLTS CURRENT - 1.0 AMPERES



SOD-123H



Dimensions in inches and (millimeters)

FEATURES

- Plastic package has Underwriters Laboratory
- Flammability Classification 94V-0 Uzifing Flame
- Retardant Epoxy Molding Compound.
- For surface mounted applications.
- Exceeds environmental standards of ML-S-19500/228
- Low leakage current

MECHANICAL DATA

Case : JEDEC SOD-123H molded plastic
 Terminals : Solder plated, solderable per MIL-STD-750, Method 2026
 Polarity : Indicated by cathode band
 Mounting Position : Any
 Weight : 0.0393gram

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

PARAMETER	CONDITIONS	SYMBOL	Min.	Typ.	Max.	UNITS
Forward rectified current	See Fig.2	I_o			1.0	A
Forward surge current	8.3ms Single Half Sine-Wave Superimposed on Rated Load (JEDEC Method)	I_{FSM}			25	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_{JA}		60		$^\circ\text{C} / \text{W}$
Diode junction capacitance	$F=1\text{MHz}$ 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-MH	A1	50	35	50	1.1	-55 to + 150
FM4002-MH	A2	100	70	100		
FM4003-MH	A3	200	140	200		
FM4004-MH	A4	400	280	400		
FM4005-MH	A5	600	420	600		
FM4006-MH	A6	800	560	800		
FM4007-MH	A7	1000	700	1000		

*1 Repetitive peak reverse peak reverse

*2 RMS voltage

*3 Continuous reverse voltage

*4 Maximum forward voltage

FM4001-MH thru FM4007-MH

SURFACE MOUNT STANDARD RECOVERY RECTIFIER

RATING AND CHARACTERISTICS CURVES FM4001-MH THRU FM4007-MH

FIG.1-TYPICAL FORWARD CHARACTERISTICS

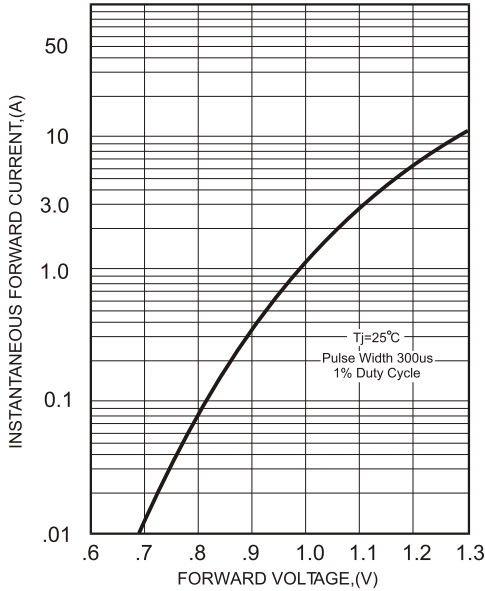


FIG.2-TYPICAL FORWARD CURRENT DERATING CURVE

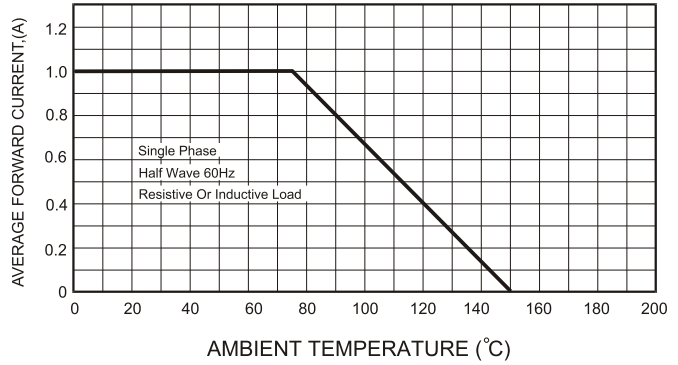


FIG.4-MAXIMUM NON-REPETITIVE FORWARD SURGE CURRENT

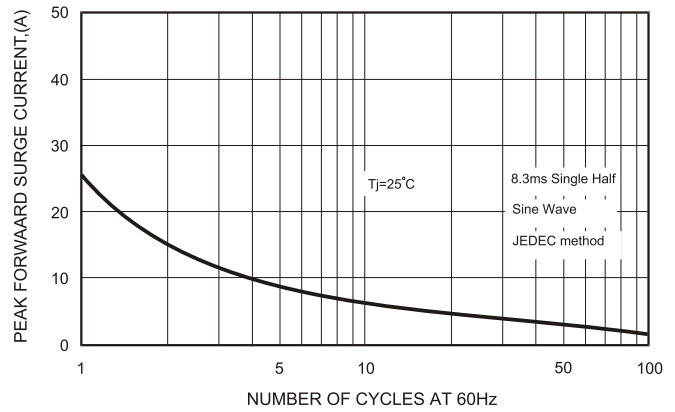


FIG.3 - TYPICAL REVERSE CHARACTERISTICS

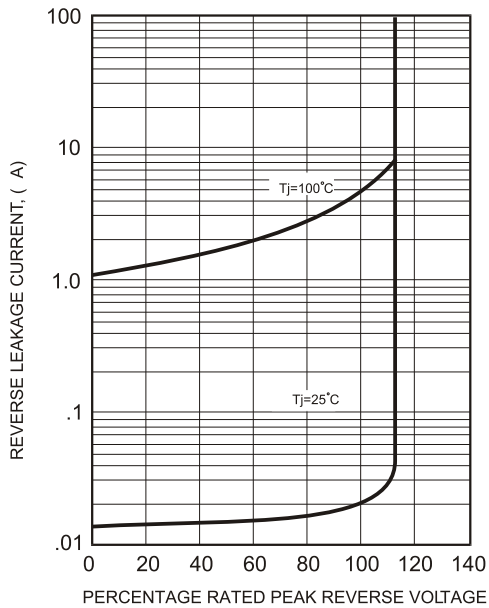


FIG.5-TYPICAL JUNCTION CAPACITANCE

