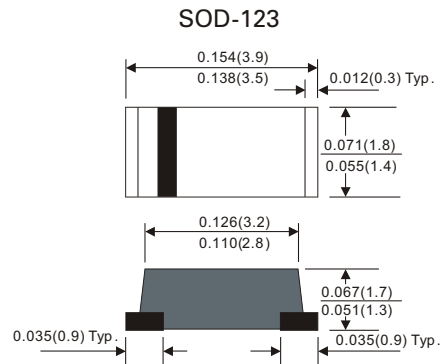


# FM4001-M thru FM4007-M

## SURFACE MOUNT STANDARD RECOVERY RECTIFIER

VOLTAGE - 50 TO 1000 VOLTS CURRENT - 1.0 AMPERES



### 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-123/MINI-SMA molded plastic  
 Terminals : Solder plated, solderable per  
 MIL-STD-750, Method 2026  
 Polarity : Indicated by cathode band  
 Mounting Position : Any  
 Weight : 0.04gram

### 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)	$I_{FSM}$			30	A
Reverse current	$V_R = V_{RRM}$ $T_A = 25^{\circ}\text{C}$	$I_R$			5.0	$\mu\text{A}$
	$V_R = V_{RRM}$ $T_A = 100^{\circ}\text{C}$				50	$\mu\text{A}$
Thermal resistance	Junction to ambient	$R_{thJA}$		60		$^{\circ}\text{C} / \text{W}$
	Junction to case	$R_{thJC}$		30		
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-M	A1	50	35	50	1.1	-55 to + 125
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 peak reverse  
 \*2 RMS voltage  
 \*3 Continuous reverse voltage  
 \*4 Maximum forward voltage

# FM4001-M thru FM4007-M

## SURFACE MOUNT STANDARD RECOVERY RECTIFIER

### RATING AND CHARACTERISTICS CURVES FM4001-M THRU FM4007-M

FIG.1-TYPICAL FORWARD CHARACTERISTICS

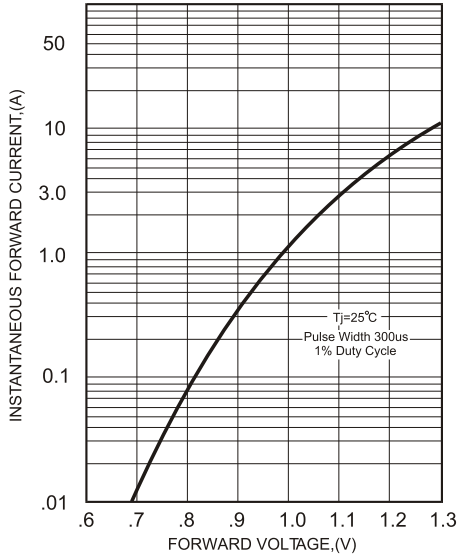


FIG.2-TYPICAL FORWARD CURRENT DERATING CURVE

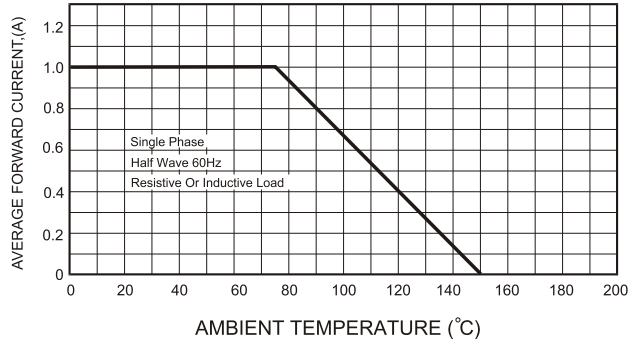


FIG.4-MAXIMUM NON-REPETITIVE FORWARD SURGE CURRENT

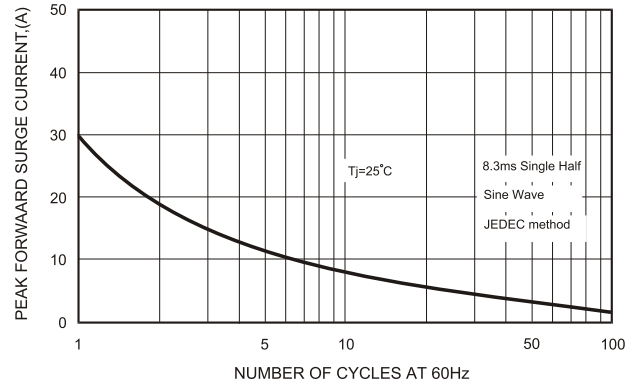


FIG.3 - TYPICAL REVERSE CHARACTERISTICS

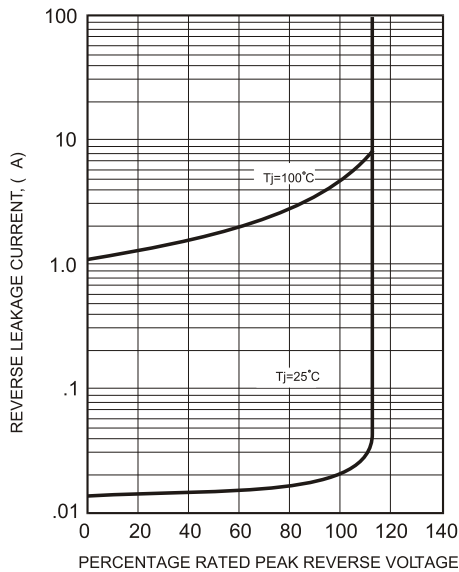


FIG.5-TYPICAL JUNCTION CAPACITANCE

