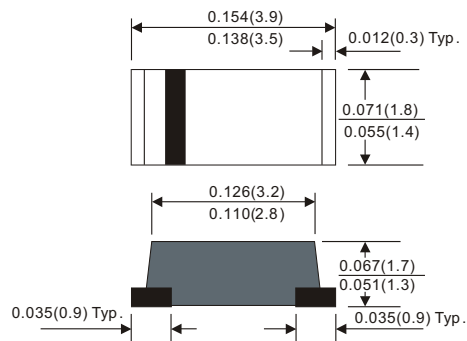


# FM220-M thru FM2100-M

## SILICON EPITAXIAL PLANCE TYPE



SOD-123



Dimensions in inches and (millimeters)

### FEATURES

- Plastic package has Underwriters Laboratory
- Flammability classification 94V-0 Utilizing Flame
- Retardant Epoxy Molding Compound
- For surface mount applications
- Exceeds environmental standards of MIL-S-19500/228
- Low leakage current.

### MECHANICAL DATA

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

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

PARAMETER	CONDITIONS	SYMBOL	Min.	Typ.	Max.	UNITS
Forward rectified current	See Fig. 1	$I_o$			2.0	A
Forward surge current	8.3ms Single Half Sine-Wave Superimposed on Rated Load (JEDEC Method)	$I_{FSM}$			50	A
Reverse current	$V_R=V_{RRM}$ $T_A=25^\circ\text{C}$	$I_R$			0.5	mA
	$V_R=V_{RRM}$ $T_A=100^\circ\text{C}$				10	mA
Thermal resistance	Junction to ambient	$R_{JA}$		85		$^\circ\text{C} / \text{W}$
Diode junction capacitance	$F=1\text{MHz}$ and applied 4vDC reverse voltage	$C_J$		160		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 ( $^\circ\text{C}$ )
FM220-M	22	20	14	20	0.5	-55 to + 125
FM230-M	23	30	21	30		
FM240-M	24	40	28	40		
FM250-M	25	50	35	50	0.7	-55 to + 150
FM260-M	26	60	42	60		
FM280-M	28	80	56	80	0.85	
FM2100-M	20	100	70	100		

\*1 Repetitive peak reverse peak reverse

\*2 RMS voltage

\*3 Continuous reverse voltage

\*4 Maximum forward voltage

# FM220-M thru FM2100-M

## SILICON EPITAXIAL PLANCE TYPE

### RATING AND CHARACTERISTICS CURVES FM220-M THRU FM2100-M

FIG.1-TYPICAL FORWARD CURRENT DERATING CURVE

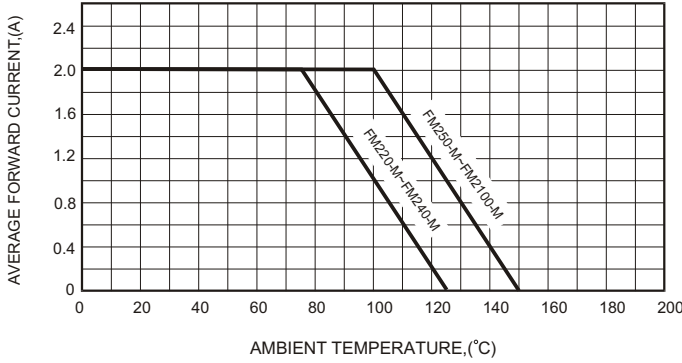


FIG.2-TYPICAL FORWARD CHARACTERISTICS

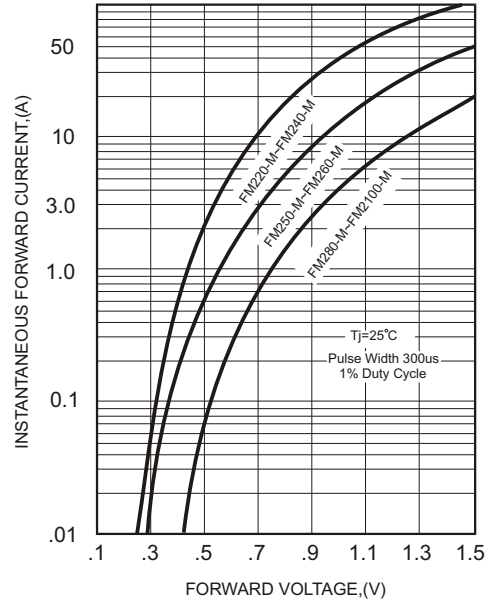


FIG.3-MAXIMUM NON-REPETITIVE FORWARD SURGE CURRENT

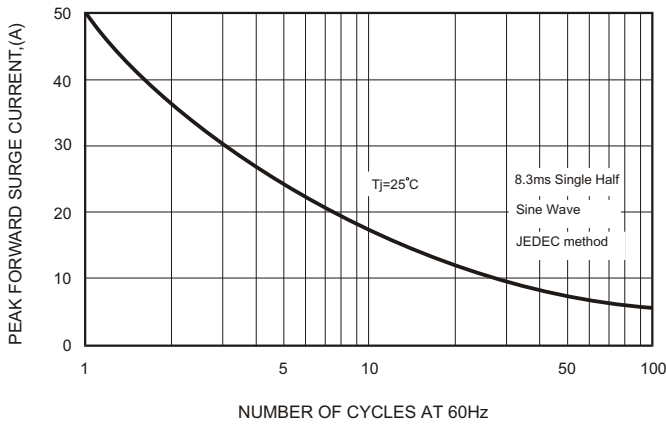


FIG.5 - TYPICAL REVERSE CHARACTERISTICS

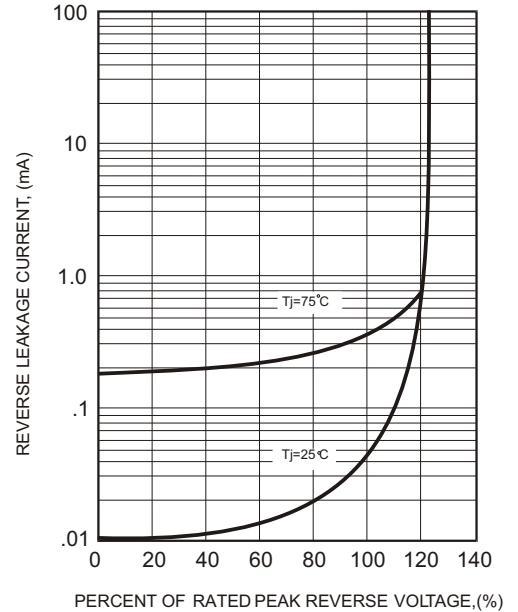


FIG.4-TYPICAL JUNCTION CAPACITANCE

