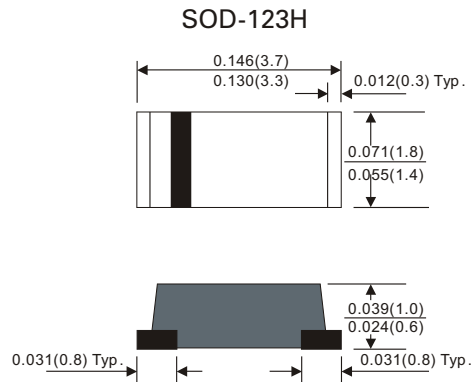


SFM11-MH thru SFM18-MH

SUPER FAST RECOVER TYPE



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-123H
 Terminals : Solder plated, solderable per MIL-STD-750, Method 2026
 Polarity : Indicated by cathode band
 Mounting Position : Any
 Weight : 0.0393grams

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

PARAMETER	CONDITIONS	SYMBOL	Min.	Typ.	Max.	UNITS
Forward rectified current	Ambient Thermal= 50°C	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
	$V_R=V_{RRM}$ $T_A=100^{\circ}\text{C}$				100	μA
Thermal resistance	Junction to ambient	R_{JA}		42		$^{\circ}\text{C} / \text{W}$
Diode junction capacitance	$F=1\text{MHz}$ and applied 4vDC reverse voltage	C_J		10		pF
Storage temperature		T_{STG}	-55		+150	$^{\circ}\text{C}$

SYMBOLS	MARKING CODE	V_{RRM}^{*1} (V)	V_{RRM}^{*2} (V)	V_{RRM}^{*3} (V)	V_{RRM}^{*4} (V)	V_{RRM}^{*5} (nS)	Operating Temperature ($^{\circ}\text{C}$)
SFM11-MH	S1	50	35	50	0.95	35	-55 to + 150
SFM12-MH	S2	100	70	100			
SFM13-MH	S3	150	105	150			
SFM14-MH	S4	200	140	200			
SFM15-MH	S5	300	210	300	1.25		
SFM16-MH	S6	400	280	400			
SFM17-MH	S7	500	350	500	1.7		
SFM18-MH	S8	600	420	600			

- *1 Repetitive peak reverse peak reverse
 *2 RMS voltage
 *3 Continuous reverse voltage
 *4 Maximum forward voltage
 *5 Reverse recovery time

SFM11-MH thru SFM18-MH

SUPER FAST RECOVER TYPE

RATING AND CHARACTERISTICS CURVES SFM11-MH THRU SFM18-MH

FIG.1-TYPICAL FORWARD CHARACTERISTICS

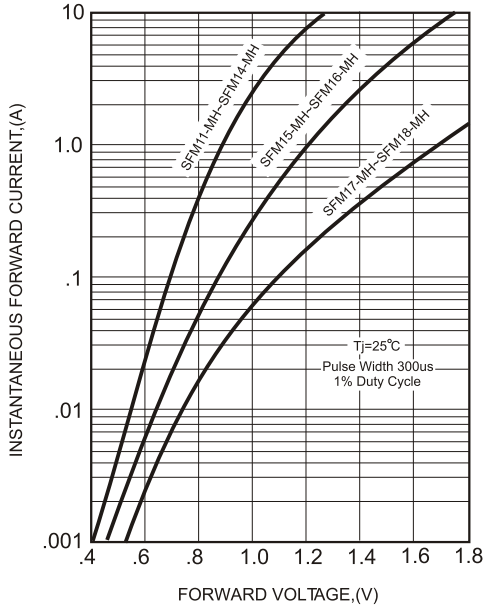


FIG.2-TYPICAL FORWARD CURRENT DERATING CURVE

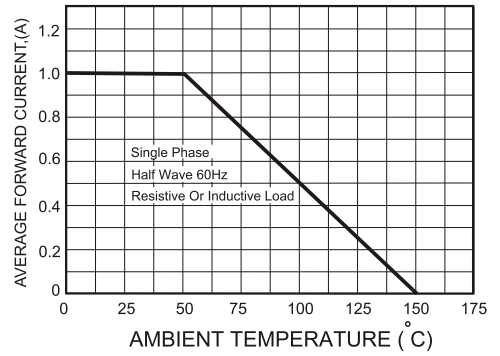


FIG.4-MAXIMUM NON-REPETITIVE FORWARD SURGE CURRENT

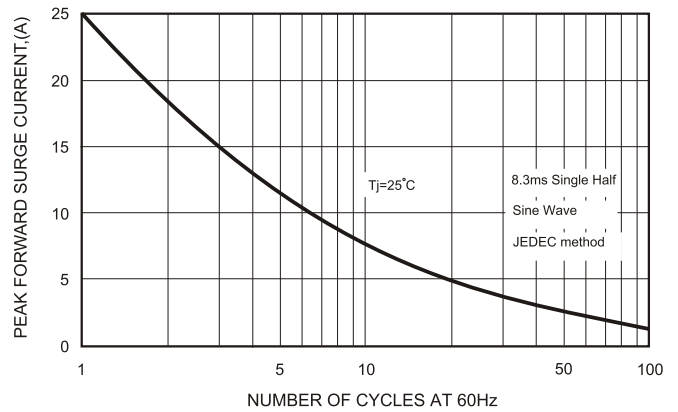
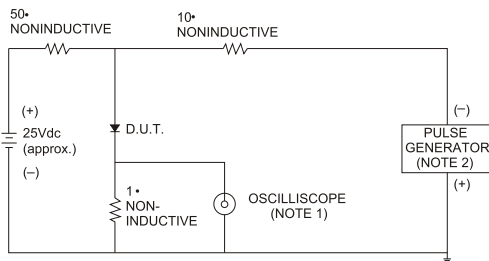


FIG.3- TEST CIRCUIT DIAGRAM AND REVERSE RECOVERY TIME CHARACTERISTICS



- NOTES: 1. Rise Time= 7ns max., Input Impedance= 1 megohm.22pF.
2. Rise Time= 10ns max., Source Impedance= 50 ohms.

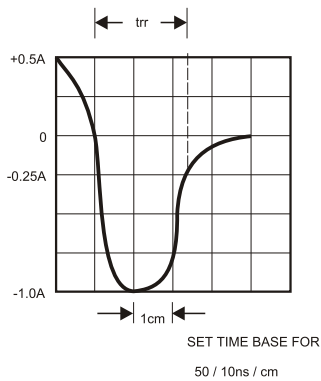


FIG.5-TYPICAL JUNCTION CAPACITANCE

