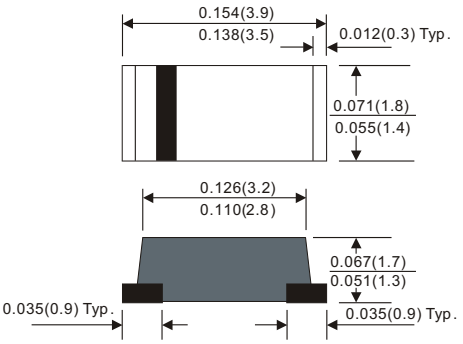
FM120-M thru FM1150-M

SILICON EPITAXIAL PLANCE TYPE

SOD-123



Dimensions in inches and (millimeters)

FEATURES

- Plastic package has Underwriters Laboratory
- Flammability classification 94V-0 Utilizing Fame
- 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°C unless otherwise noted)

PARAMETER	CONDITIONS	SYMBOL	Min.	Typ.	Max.	UNITS
Forward rectified current	See Fig.1	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°C	I_R			0.5	mA
	V_R=V_{RRM} T_A=100°C				10	mA
Thermal resistance	Junction to ambient	R_{JA}		98		°C / W
Diode junction capacitance	F=1MHz and applied 4vDC reverse voltage	C_J		120		pF
Storage temperature		T_{STG}	-55		+150	°C

SYMBOLS	MARKING CODE	V_{RRM} *1 (V)	V_{RMS} *2 (V)	V_R *3 (V)	V_F *4 (V)	Operating Temperature (°C)
FM120-M	12	20	14	20	0.5	-55 to + 125
FM130-M	13	30	21	30		
FM140-M	14	40	28	40		
FM150-M	15	50	35	50	0.7	-55 to + 150
FM160-M	16	60	42	60		
FM180-M	18	80	56	80	0.85	
FM1100-M	10	100	70	100		
FM1150-M	115	150	105	150	0.92	

*1 Repetitive peak reverse peak reverse
*2 RMS voltage
*3 Continuous reverse voltage
*4 Maximum forward voltage

FM120-M thru FM1150-M

SILICON EPITAXIAL PLANCE TYPE

RATING AND CHARACTERISTICS CURVES FM120-M THRU FM1150-M

FIG.1-TYPICAL FORWARD CURRENT DERATING CURVE

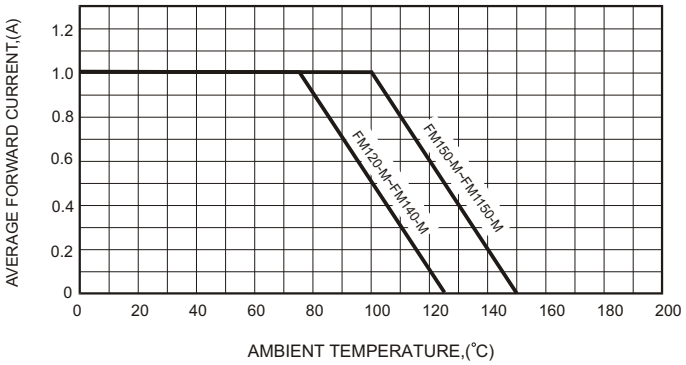


FIG.2-TYPICAL FORWARD CHARACTERISTICS

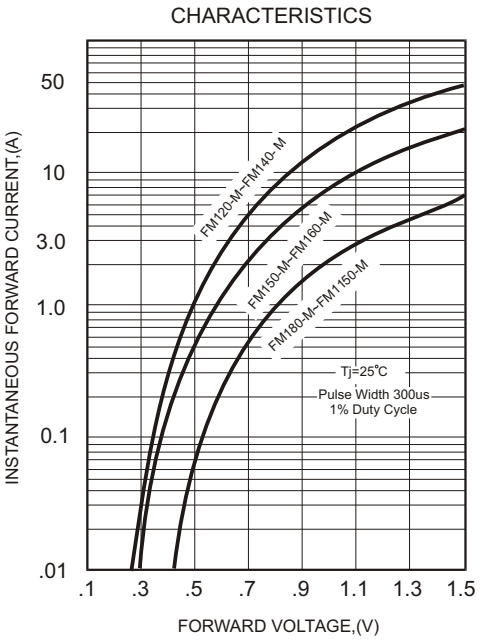


FIG.3-MAXIMUM NON-REPETITIVE FORWARD SURGE CURRENT

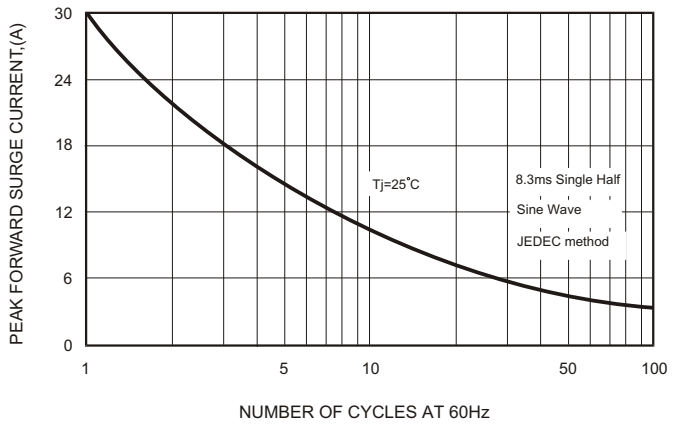


FIG.4-TYPICAL JUNCTION CAPACITANCE

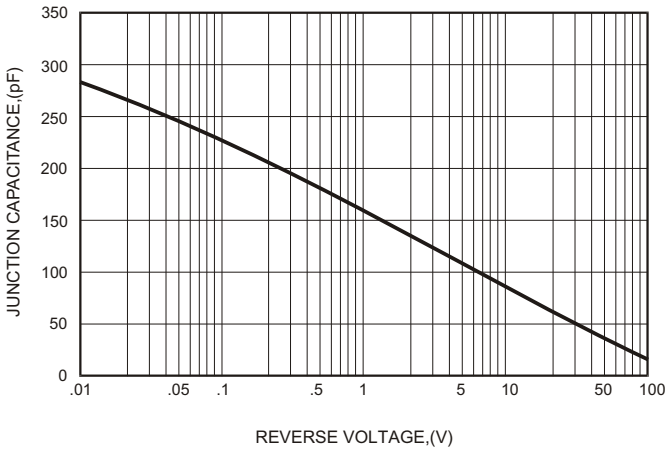


FIG.5 - TYPICAL REVERSE CHARACTERISTICS