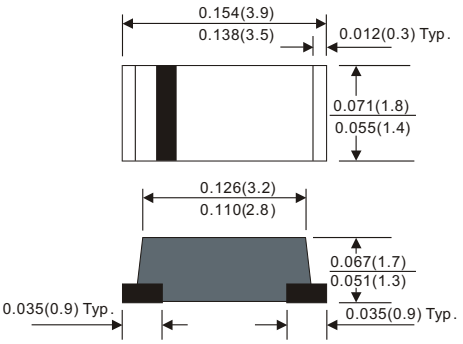
HFM101-M thru HFM107-M

ULTRA FAST RECOVER 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	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}			30	A
Reverse current	V_R=V_{RRM} T_A=25°C	I_R			5.0	μA
	V_R=V_{RRM} T_A=100°C				150	μA
Thermal resistance	Junction to ambient	R_{JA}		42		°C / W
Diode junction capacitance	F=1MHz and applied 4vDC reverse voltage	C_J		20		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)	T_{RR} *5 (nS)	Operating Temperature (°C)
HFM101-M	H1	50	35	50	1.0	50	-55 to + 150
HFM102-M	H2	100	70	100			
HFM103-M	H3	200	140	200			
HFM104-M	H4	400	280	400	1.3		
HFM105-M	H5	600	420	600	1.7	75	
HFM106-M	H6	800	560	800			
HFM107-M	H7	1000	700	1000			

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