WEJ®

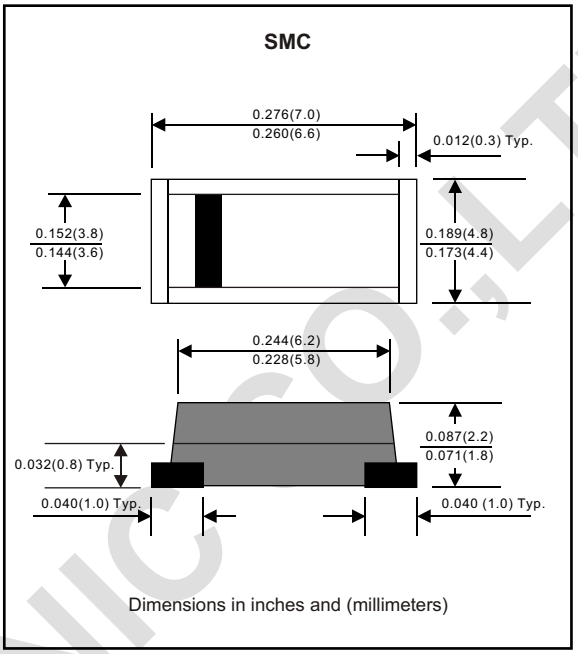
RoHS

H31-H37

Ultra fast recovery type

Features

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



Mechanical data

Case : Molded plastic, JEDEC DO-214AB
Terminals : Solder plated, solderable per MIL-STD-750, Method 2026
Polarity : Indicated by cathode band
Mounting Position : Any
Weight : 0.00585 ounce, 0.195 gram

MAXIMUM RATINGS (AT T_A=25°C unless otherwise noted)

PARAMETER	CONDITIONS	Symbol	MIN.	TYP.	MAX.	UNIT
Forward rectified current	Ambient temperature = 55°C	I_O			3.0	A
Forward surge current	8.3ms single half sine-wave superimposed on rate load (JEDEC methode)	I_{FSM}			100	A
Reverse current	V_R = V_{RRM} T_A = 25°C	I_R			10.0	uA
	V_R = V_{RRM} T_A = 100°C				300	uA
Thermal resistance	Junction to ambient	Rq_{JA}		15		°C / W
Diode junction capacitance	f=1MHz and applied 4vDC reverse voltage	C_J		70		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)
HFM301	H31	50	35	50	1.0	50	-55 to +150
HFM302	H32	100	70	100			
HFM303	H33	200	140	200			
HFM304	H34	300	210	300	1.3		
HFM305	H35	400	280	400			
HFM306	H36	600	420	600	1.7	70	
HFM307	H37	800	560	800			

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

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RATING AND CHARACTERISTIC CURVES (HFM301 THRU HFM307)

FIG.1-TYPICAL FORWARD CHARACTERISTICS

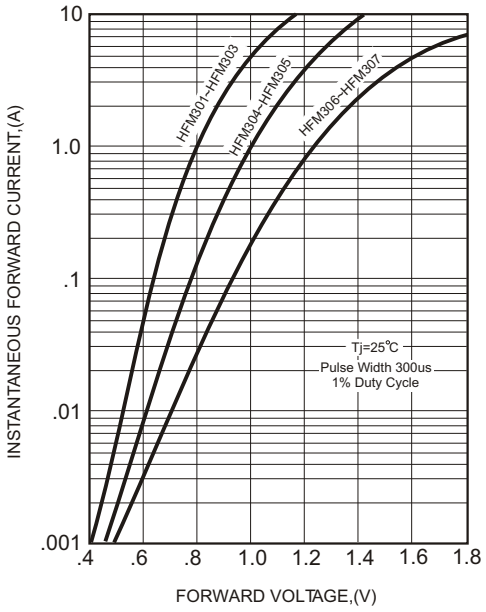


FIG.2-TYPICAL FORWARD CURRENT DERATING CURVE

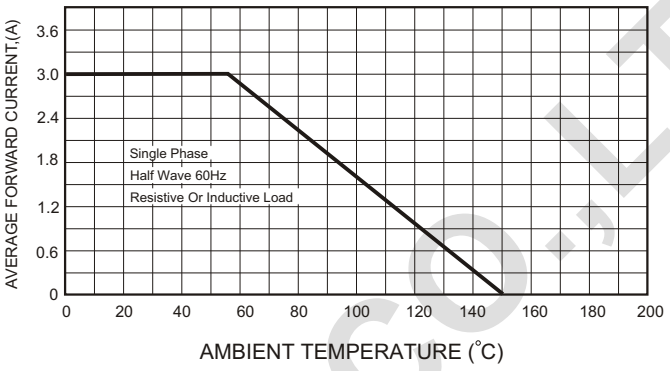
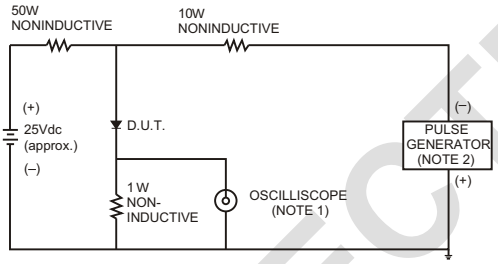


FIG.3- TEST CIRCUIT DIAGRAM AND REVERSE RECOVERY TIME CHARACTERISTICS



NOTES: 1. Rise Time= 7ns max., Input Impedance= 1 megohm.22pF.

2. Rise Time= 10ns max., Source Impedance= 50 ohms.

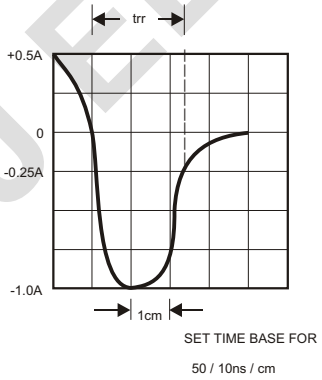


FIG.4-MAXIMUM NON-REPETITIVE FORWARD SURGE CURRENT

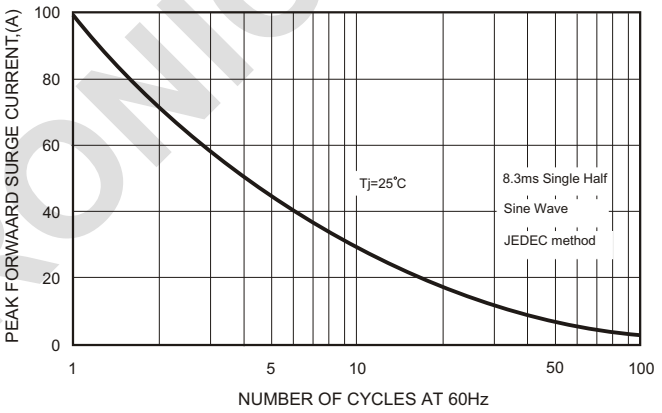
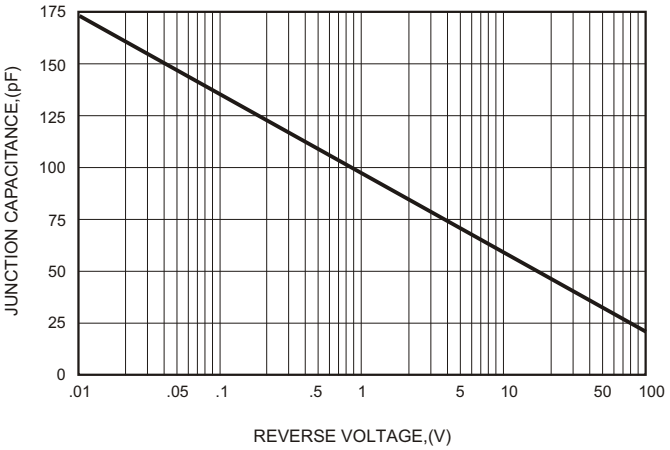


FIG.5-TYPICAL JUNCTION CAPACITANCE



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