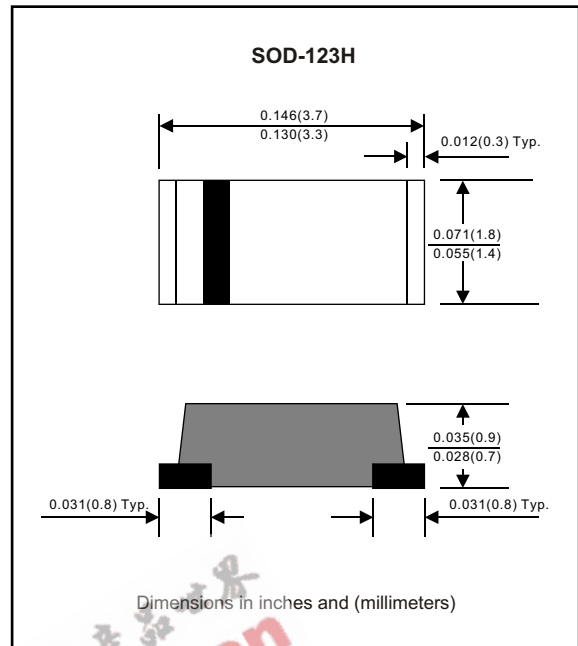


SL12-MH THRU SL14-MH

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

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

PARAMETER	CONDI TIONS	Symbol	MI N.	TYP.	MAX.	UNI T
Forward recti fied current	See Fig. 2	I_O			1.0	A
Forward surge current	8.3ms single half sine-wave superimposed on rate load (JEDEC methode)	I_{FSM}			25	A
Reverse current	$V_R = V_{RRM} T_A = 25^{\circ}C$	I_R			1.0	mA
	$V_R = V_{RRM} T_A = 100^{\circ}C$				10	mA
Thermal resi stance	Juncti on to ambient	R_{JA}		42		$^{\circ}C / W$
Di ode juncti on capaci tance	$F=1MHz$ and applied 4vDC reverse vol tage	C_J		130		pF
Storage temperature		T_{STG}	-55		+150	$^{\circ}C$

SYMBOLS	MARKING CODE	V_{RRM}^{*1} (V)	V_{RMS}^{*2} (V)	V_R^{*3} (V)	V_F^{*4} (V)	Operating temperature ($^{\circ}C$)
SL12-MH	L2	20	14	20	0.38	-55 to +125
SL13-MH	L3	30	14	20	0.40	
SL14-MH	L4	40	28	40	0.40	

*1 Repeti ti ve peak reverse vol tage

*2 RMS vol tage

*3 Conti nuous reverse vol tage

*4 Maxi mum forward vol tage

RATING AND CHARACTERISTIC CURVES (SL12-MH THRU SL14-MH)

FIG.1-TYPICAL FORWARD CHARACTERISTICS

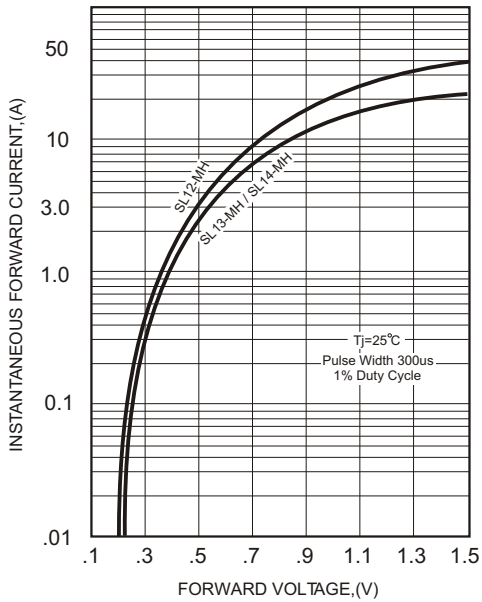


FIG.2-TYPICAL FORWARD CURRENT DERATING CURVE

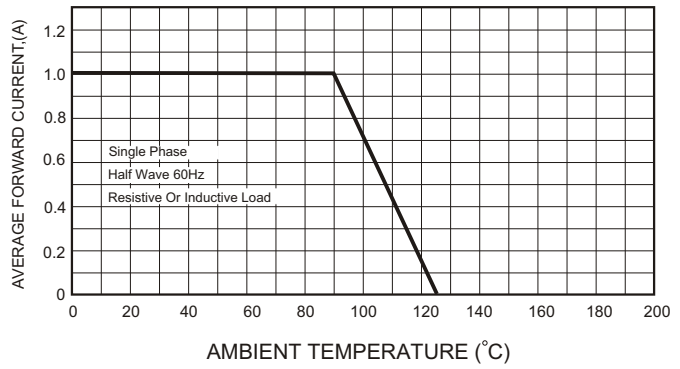


FIG.4-MAXIMUM NON-REPETITIVE FORWARD SURGE CURRENT

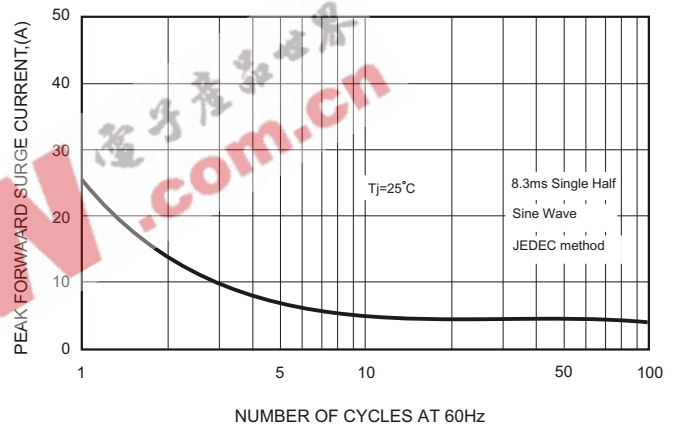


FIG.3 - TYPICAL REVERSE CHARACTERISTICS

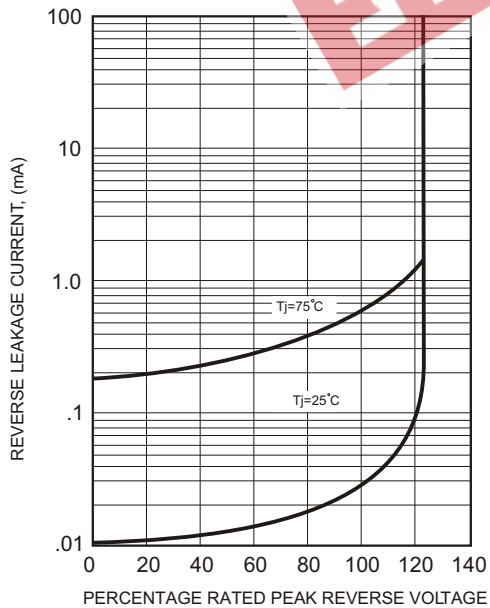


FIG.5-TYPICAL JUNCTION CAPACITANCE

