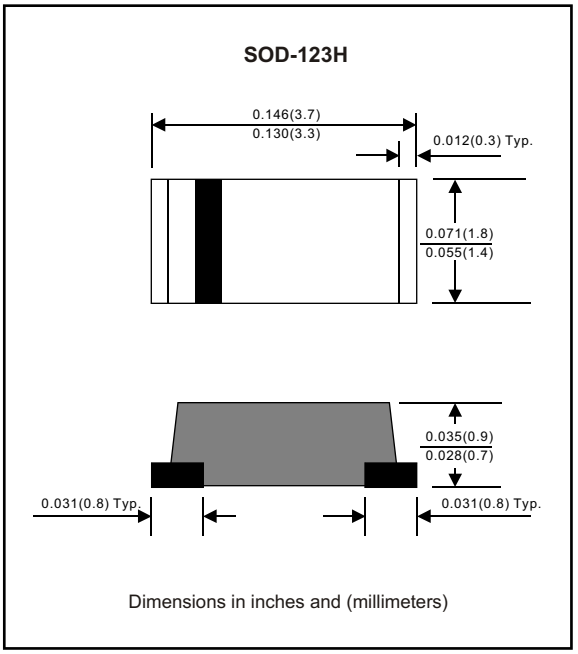
Formosa MS

SL22-MH THRU SL24-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.



Dimensions in inches and (millimeters)

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°C unless otherwise noted)*

PARAMETER	*CONDITIONS*	*Symbol*	*MIN.*	*TYP.*	*MAX.*	*UNIT*
Forward rectified current	*See Fig.2*	I_O			*2.0*	*A*
Forward surge current	*8.3ms single half sine-wave superimposed on rate load (JEDEC methode)*	I_{FSM}			*40*	*A*
Reverse current	$V_R = V_{RRM}$ T_A = 25°C	I_R			*1.0*	*mA*
	$V_R = V_{RRM}$ T_A = 100°C				*10*	*mA*
Thermal resistance	*Junction to ambient*	R_{JA}		*70*		*°C / W*
Diode junction capacitance	*f=1MHz and applied 4vDC reverse voltage*	C_J		*160*		*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)
SL22-MH	*SL22*	*20*	*14*	*20*	*0.38*	*-55 to +125*
SL23-MH	*SL23*	*30*	*21*	*30*	*0.40*	
SL24-MH	*SL24*	*40*	*28*	*40*	*0.40*	

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

RATING AND CHARACTERISTIC CURVES (SL22-MH THRU SL24-MH)

FIG.1-TYPICAL FORWARD CHARACTERISTICS

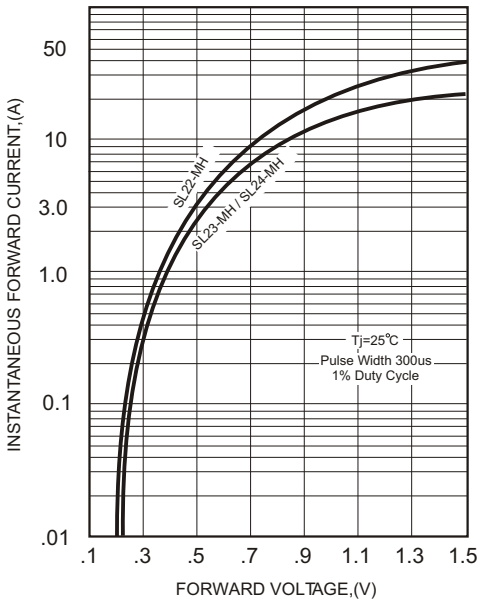


FIG.2-TYPICAL FORWARD CURRENT DERATING CURVE

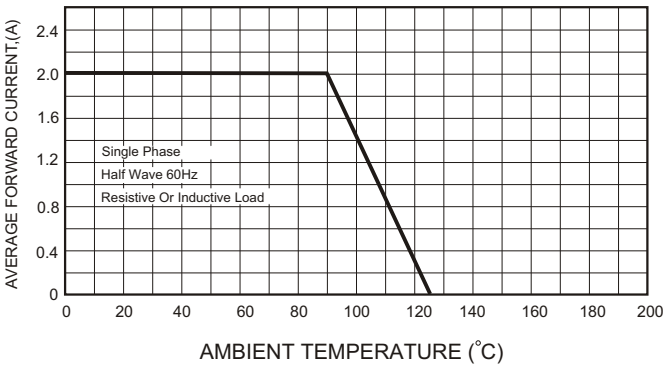


FIG.3 - TYPICAL REVERSE CHARACTERISTICS

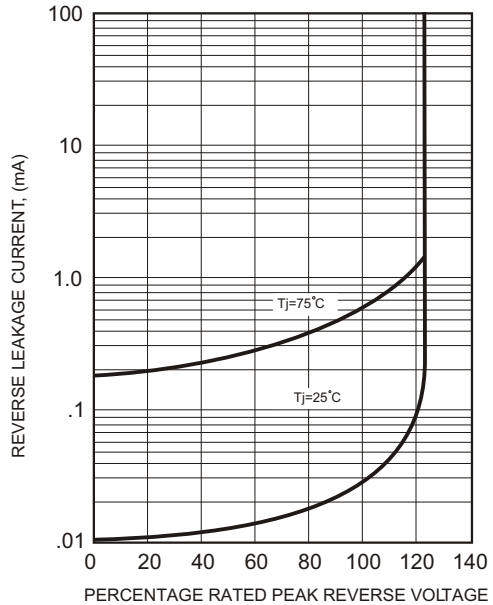


FIG.4-MAXIMUM NON-REPETITIVE FORWARD SURGE CURRENT

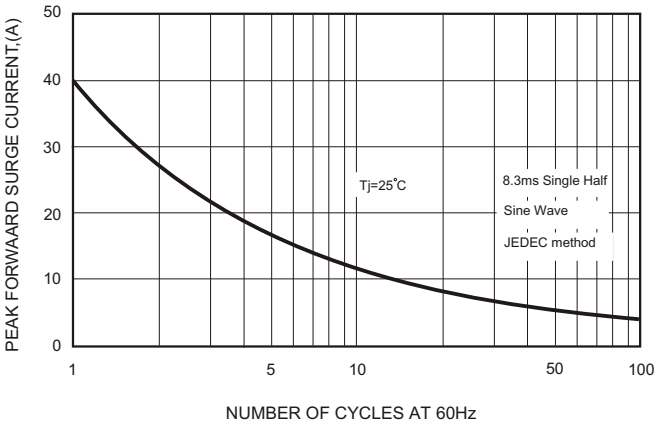


FIG.5-TYPICAL JUNCTION CAPACITANCE

