

Chip Silicon Rectifier

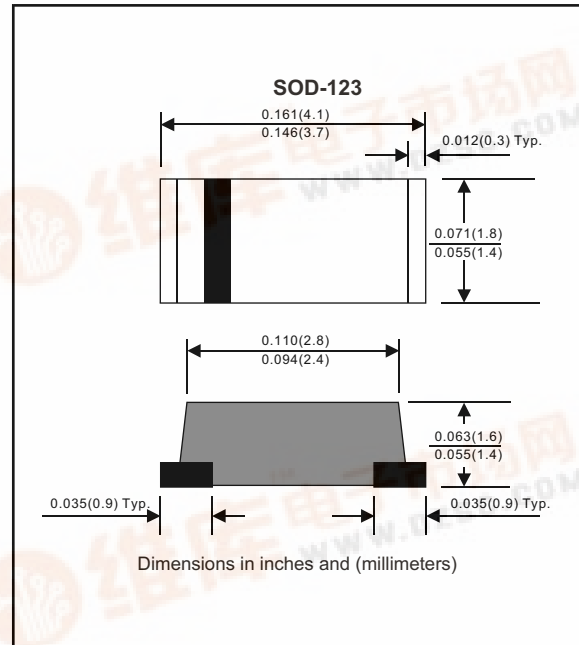
Formosa MS

FM4001-M THRU FM4007-M

Glass passivated 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 ML-S-19500 / 228
- Low leakage current



Mechanical data

Case : Molded plastic, JEDEC SOD-123 / MINI-SMA
 Terminals : Solder plated, solderable per ML-STD-750, Method 2026
 Polarity : Indicated by cathode band
 Mounting Position : Any
 Weight : 0.04 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			1.0	A
Forward surge current	8.3ms single half sine-wave superimposed on rate load (JEDEC methode)	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				50	µA
Thermal resistance	Junction to ambient	R _{QJA}		60		°C / w
Diode junction capacitance	f=1MHz and applied 4vDC reverse voltage	C _J		15		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)
FM4001-M	A1	50	35	50	1.1	-55 to +150
FM4002-M	A2	100	70	100		
FM4003-M	A3	200	140	200		
FM4004-M	A4	400	280	400		
FM4005-M	A5	600	420	600		
FM4006-M	A6	800	560	800		
FM4007-M	A7	1000	700	1000		

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



RATING AND CHARACTERISTIC CURVES (FM4001-M THRU FM4007-M)

FIG.1-TYPICAL FORWARD CHARACTERISTICS

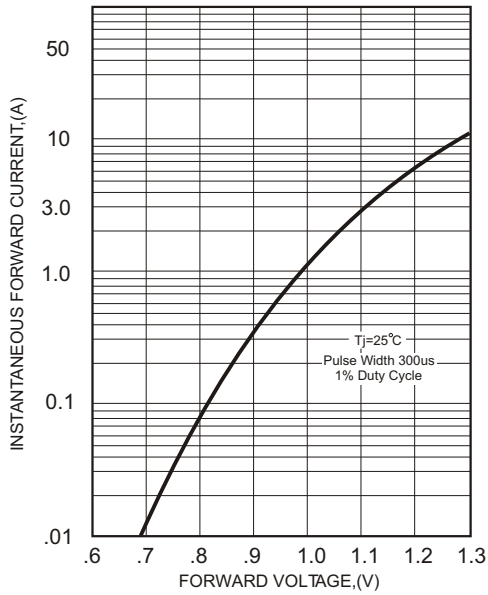


FIG.2-TYPICAL FORWARD CURRENT DERATING CURVE

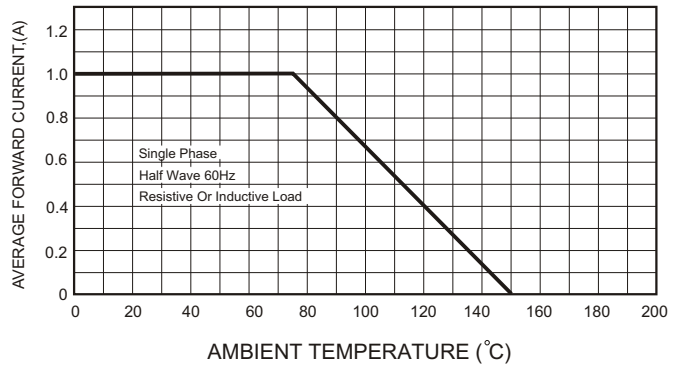


FIG.4-MAXIMUM NON-REPETITIVE FORWARD SURGE CURRENT

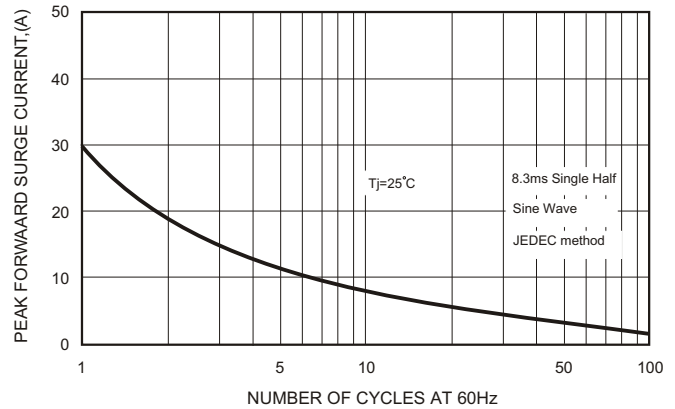


FIG.3 - TYPICAL REVERSE CHARACTERISTICS

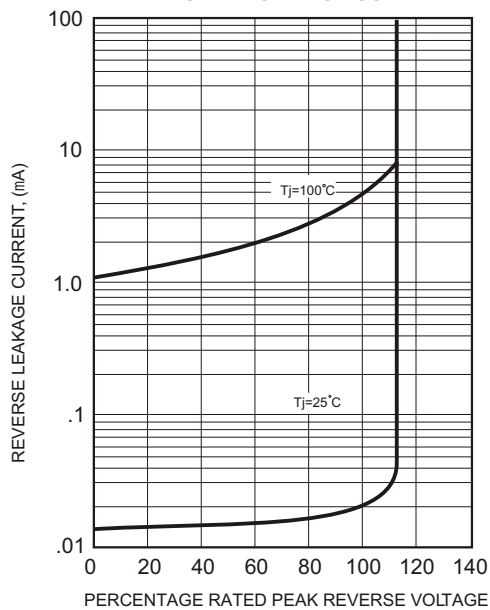


FIG.5-TYPICAL JUNCTION CAPACITANCE

