

Surface Mount Standard Recovery

Glass Passivated Rectifiers

(Pb) Lead(Pb)-Free

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

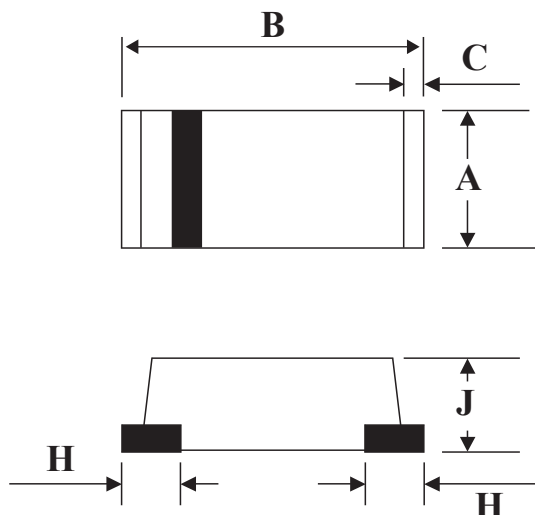
**REVERSE VOLTAGE
50 TO 1000 VOLTS
FORWARD CURRENT
1.0 AMPERE**



SOD-123H

SOD-123H Outline Dimension

unit:mm



SOD-123H		
Dim	Min	Max
A	1.40	1.80
B	3.30	3.70
C	-	0.30(TYP)
H	-	0.80(TYP)
J	0.6	1.00

Maximum Ratings ($T_A=25^{\circ}\text{C}$ Unless Otherwise noted)

Characteristics	Symbol	FM4001 MH	FM4002 MH	FM4003 MH	FM4004 MH	FM4005 MH	FM4006 MH	FM4007 MH	Unit
Maximum Recurrent Peak Reverse Voltage	VRRM	50	100	200	400	600	800	1000	V
Maximum RMS Voltage	VRMS	35	70	140	280	420	560	700	V
Maximum DC Blocking Voltage	VDC	50	100	200	400	600	800	1000	V
Maximum Average Forward Rectified Current @ $T_A=75^{\circ}\text{C}$	IF(AV)	1.0							A
Peak Forward Surge Current, 8.3 ms Single Half Sine-Wave Superimposed on Rated Load (JEDEC Method)	IFSM	25							A
Maximum Instantaneous At 1.0A DC	VF	1.10							V
Maximum DC Reverse Current @ $T_A=25^{\circ}\text{C}$ At Rated DC Blocking Voltage @ $T_A=100^{\circ}\text{C}$	IR	5.0 50							μA
Typical Junction Capacitance (Note 1)	C_J	15(TYP)							Pf
Typical Thermal Resistance (Note 2)	$R_{\theta JA}$	60(TYP)							$^{\circ}\text{C}/\text{W}$
Operating Temperature Range	T_J	-55 to+150							$^{\circ}\text{C}$
Storage Temperature Range	TSTG	-55 to+150							$^{\circ}\text{C}$

Device Marking

Item	Marking	Item	Marking
FM4001MH	A1	FM4005MH	A5
FM4002MH	A2	FM4006MH	A6
FM4003MH	A3	FM4007MH	A7
FM4004MH	A4		

FIG.1-TYPICAL FORWARD CHARACTERISTICS

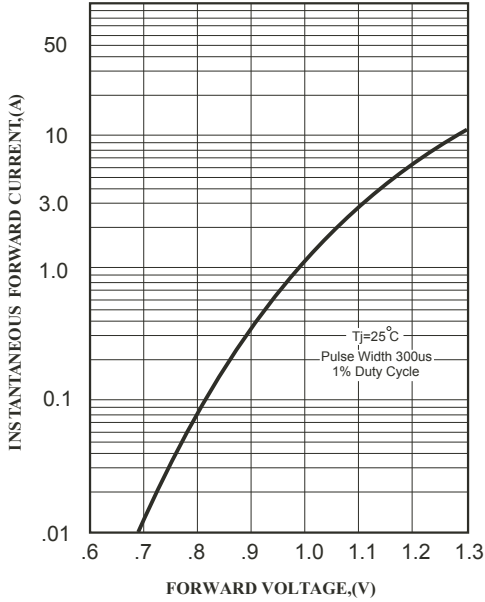


FIG.2-TYPICAL FORWARD CURRENT DERATING CURVE

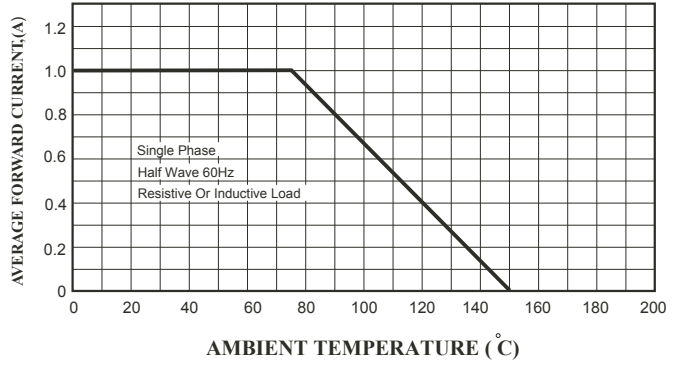


FIG.4-MAXIMUM NON-REPETITIVE FORWARD SURGE CURRENT

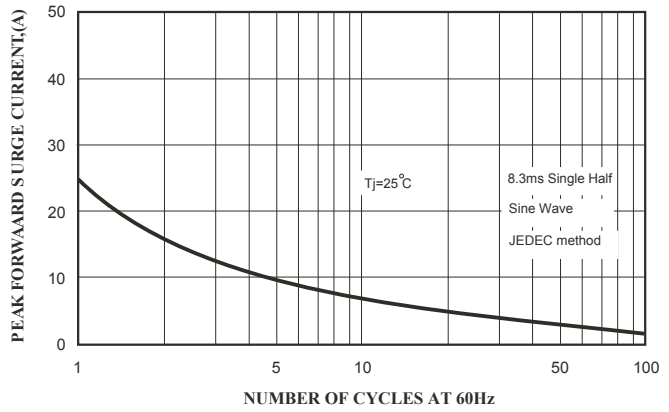


FIG.3 - TYPICAL REVERSE CHARACTERISTICS

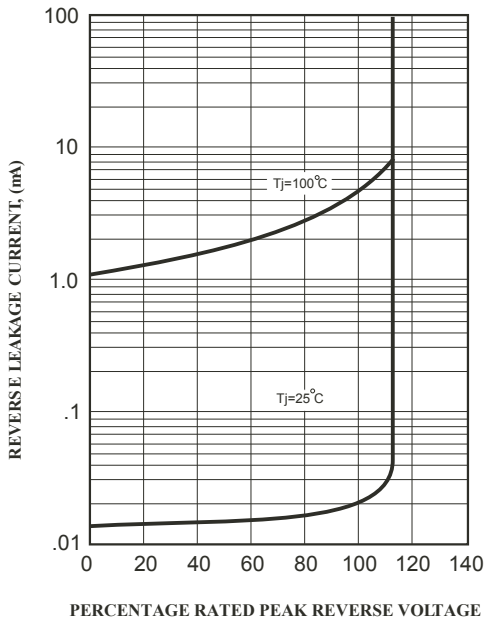


FIG.5-TYPICAL JUNCTION CAPACITANCE

