

GSSF4002MH Series

Surface Mount Standard Recovery Glass Passivated Rectifiers

Product Description

Reverse Voltage 100V & 200V & 600V & 800V
Forward Current 1.0A

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
- Lead(Pb)-Free

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 : 0.011 grams

Packages

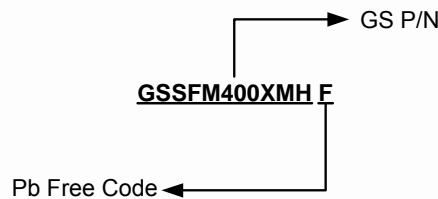


SOD-123H

Marking Information

Part Number	Package	Marking
GSSF4002MHF	SOD-123H	A2
GSSF4003MHF	SOD-123H	A3
GSSF4005MHF	SOD-123H	A5
GSSF4006MHF	SOD-123H	A6

Ordering Information



Part Number	Package	Quantity
GSSF4002MHF Series	SOD-123H	3000 PCS

Electrical Characteristics

(T_A=25°C Unless Otherwise Noted)

Symbol	Conditions	FM 4002MH	FM 4003MH	FM 4005MH	FM 4006MH	Unit
V _{RRM}	Maximum Recurrent Peak Reverse Voltage	100	200	600	800	V
V _{RMS}	Maximum RMS Voltage	70	140	420	560	V
V _{DC}	Maximum DC Blocking Voltage	100	200	600	800	V
V _F	Maximum Instantaneous At 1.0A DC	1.1				V
I _R	Maximum DC Reverse Current At Rated DC Blocking Voltage	T _A =25°C	5.0			uA
		T _A =100°C	50			
C _J	Typical Junction Capacitance	15(TYP)				pF
I _{F(AV)}	Maximum Average Forward Rectified Current @T _A =75°C	1.0				A
I _{FSM}	Peak Forward Surge Current, 8.3ms Single Half Sine-Wave Superimposed on Rated Load (JEDEC Method)	25				A
R _{θJA}	Thermal Resistance Junction to Ambient	60(TYP)				°C/W
T _J	Junction Temperature Range	-55 to +150				°C
T _{STG}	Storage Temperature Range	-65 to +175				°C

Typical Characteristics

CHARACTERISTICS

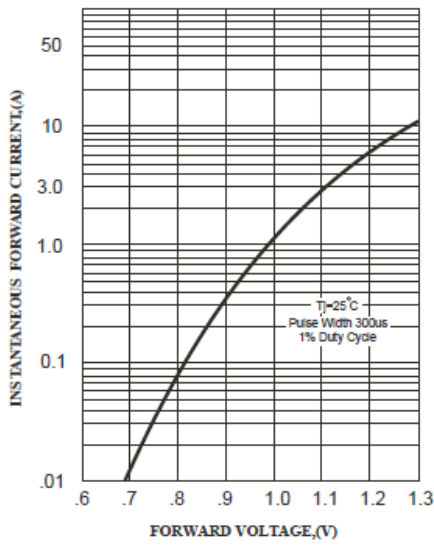


FIG.3 - TYPICAL REVERSE CHARACTERISTICS

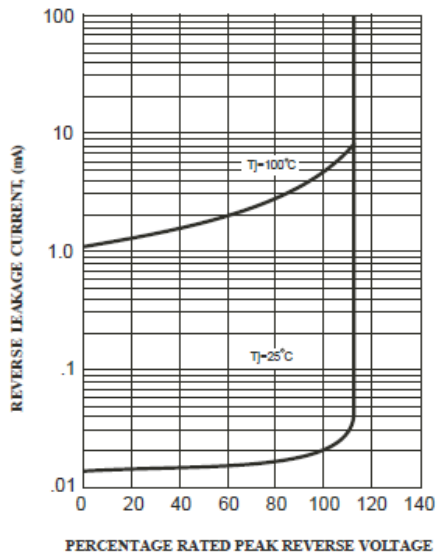


FIG.2-TYPICAL FORWARD CURRENT DERATING CURVE

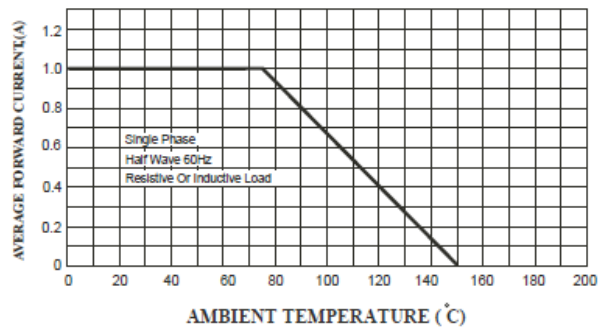


FIG.4-MAXIMUM NON-REPETITIVE FORWARD SURGE CURRENT

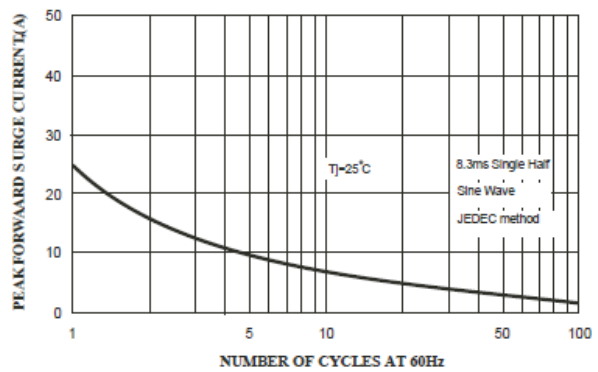
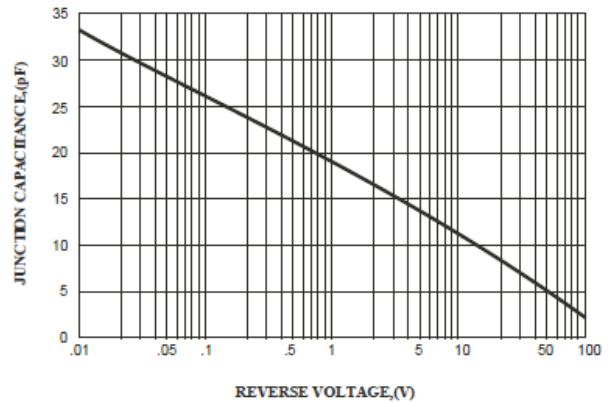
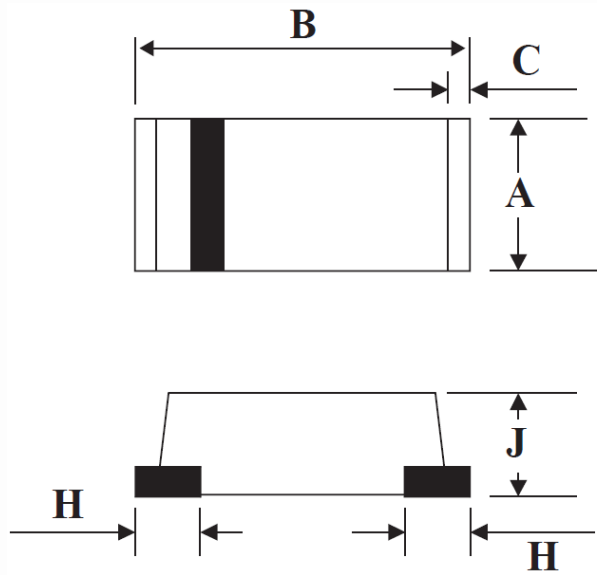


FIG.5-TYPICAL JUNCTION CAPACITANCE



Package Dimension

SOD-123H



Dimensions				
Symbol	Millimeters		Inches	
	Min	Max	Min	Max
A	1.40	1.80	0.055	0.070
B	3.30	3.70	0.129	0.145
C	-	0.30(TYP)	-	0.011(TYP)
H	-	0.80(TYP)	-	0.031(TYP)
J	0.6	1.00	0.023	0.039

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