

GSSM1 Series

Surface Mount Standard Recovery Glass Passivated

Product Description

Reverse Voltage 50V to 1000V Forward Current 1.0A

Features

- Plastic package has Underwriters Laboratory
- Flammability Classification 94V-0
- For surface mounted applications
- Low profile package
- Easy pick and place
- Built-in strain relief
- Low forward voltage drop
- High temperature soldering : 260°C /10 seconds at terminals
- Lead(Pb)-Free

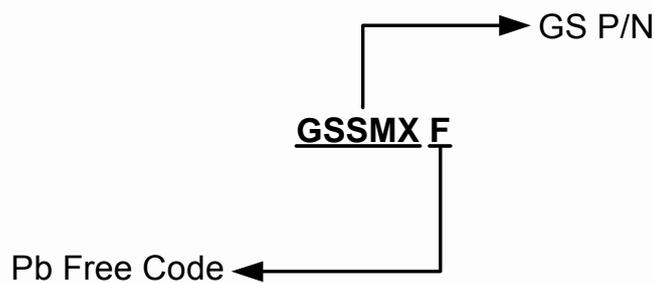
Mechanical Data

- Case : Molded plastic, SMA
- Terminals : Solder plated, solderable per MIL-STD-750, method 2026 guaranteed
- Polarity : Cathode Band
- Weight : 0.064 grams

Packages



Ordering Information



P/N	Package	Quantity
GSSM1F	SMA	5000 PCS
GSSM2F	SMA	
GSSM3F	SMA	
GSSM4F	SMA	
GSSM5F	SMA	
GSSM6F	SMA	
GSSM7F	SMA	

Electrical Characteristics

(T_A=25°C unless otherwise noted)

Symbol	Conditions	GSSM1F	GSSM2F	GSSM3F	GSSM4F	Unit
V _{RRM}	Maximum Repetitive Peak Reverse Voltage	50	100	200	400	V
V _{RMS}	Maximum RMS Voltage	35	70	140	280	V
V _{DC}	Maximum DC Blocking Voltage	50	100	200	400	V
Symbol	Conditions	GSSM5F	GSSM6F	GSSM7F	Unit	
V _{RRM}	Maximum Recurrent Peak Reverse Voltage	600	800	1000	V	
V _{RMS}	Maximum RMS Voltage	420	560	700	V	
V _{DC}	Maximum DC Blocking Voltage	600	800	1000	V	
V _F	Maximum Instantaneous Forward Voltage At I _F =1A @ T _A =25°C		1.1		V	
I _R	Maximum DC Reverse Current At Rated DC Blocking Voltage	T _A =25°C	5		uA	
		T _A =125°C	100		uA	
I _F	Maximum Average Forward Rectified Current		1.0		A	
I _{FSM}	Peak Forward Surge Current, 8.3ms Single Half Sine-Wave Superimposed On Rated Load		30		A	
C _J	Typical Junction Capacitance(Note 1)		12		pF	
R _{θJA}	Thermal Resistance Junction to Ambient		30		°C/W	
T _{RR}	Maximum Reverse Recovery Time		2.5		us	
T _J	Junction Temperature Range		-65 to +150		°C	
T _{STG}	Storage Temperature Range		-65 to +150		°C	

Notes : 1.Measured at 1.0MHz and applied reverse voltage of 4.0V DC

Typical Characteristics

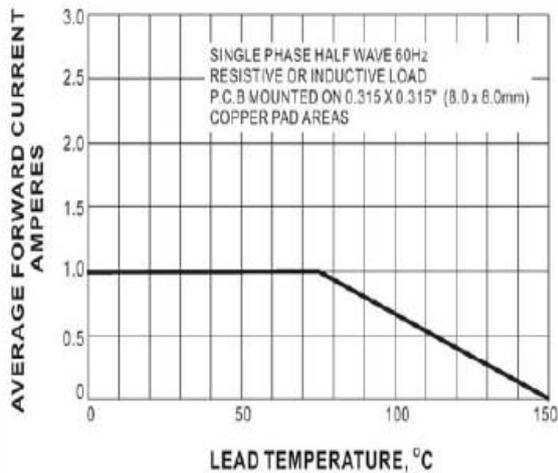


Fig.1-FORWARD CURRENT DERATING CURVE

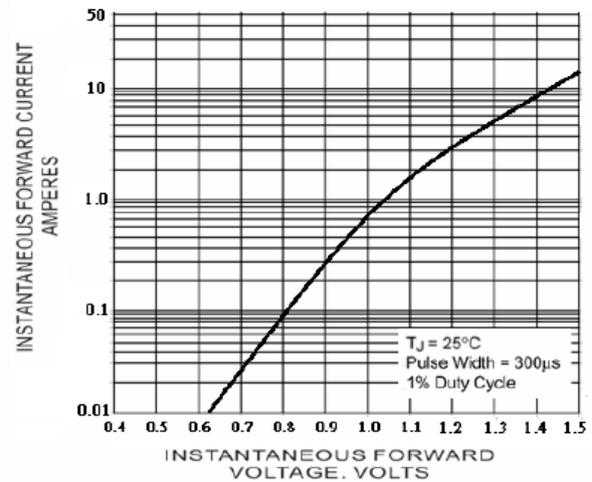


Fig.2- TYPICAL INSTANTANEOUS FORWARD CHARACTERISTICS

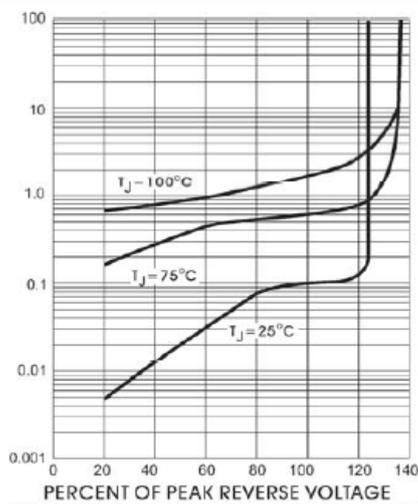


Fig. 3- TYPICAL REAK REVERSE CHARACTERISTICS

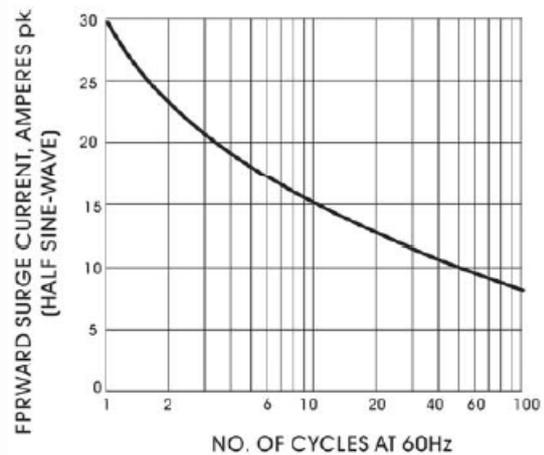


Fig. 4- MAXIMUM NON-REPETITIVE PEAK FORWARD SURGE CURRENT

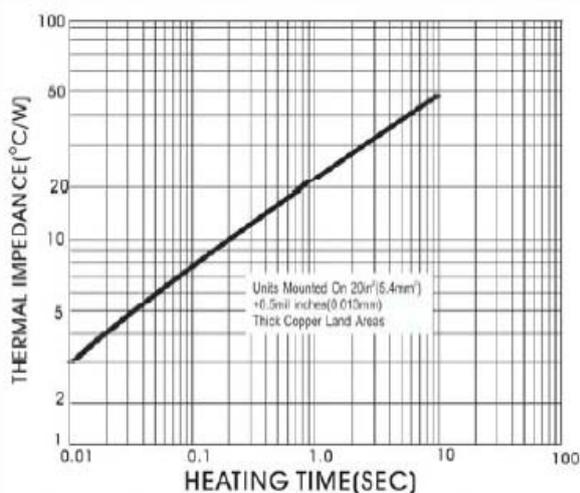


Fig. 5- TRANSIENT THERMAL IMPEDANCE

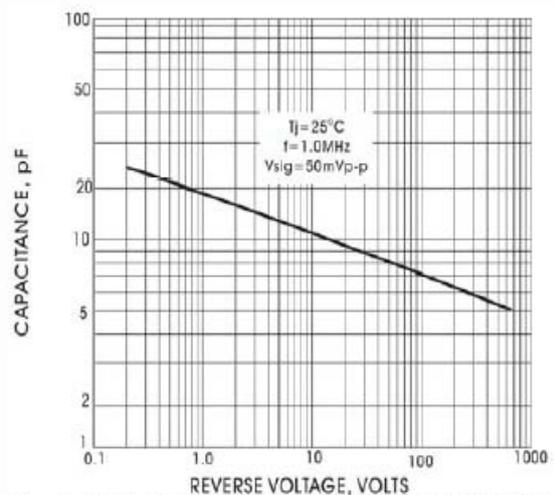
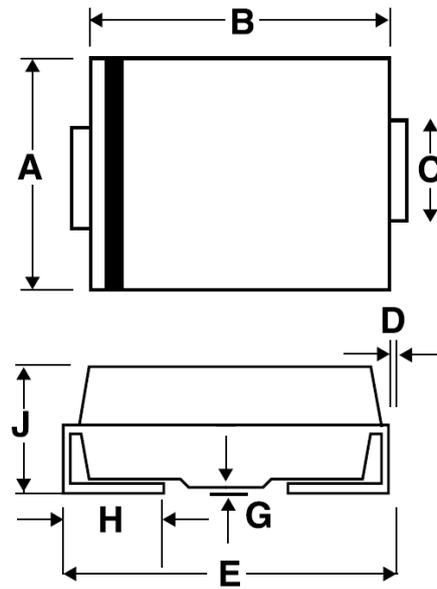


Fig. 6- TYPICAL JUNCTION CAPACITANCE PER ELEMENT

Package Dimension

SMA



Dimensions

Symbol	Millimeters		Inches	
	Min	Max	Min	Max
A	2.20	2.92	0.086	0.114
B	4.00	4.60	0.157	0.181
C	1.27	1.63	0.050	0.064
D	0.15	0.31	0.005	0.012
E	4.48	5.59	0.176	0.220
G	0.10	0.20	0.003	0.007
H	0.76	1.52	0.029	0.059
J	1.70	2.62	0.066	0.103

NOTICE

Information furnished is believed to be accurate and reliable. However Globaltech Semiconductor assumes no responsibility for the consequences of use of such information nor for any infringement of patents or other rights of third parties, which may result from its use. No license is granted by implication or otherwise under any patent or patent rights of Globaltech Semiconductor. Specifications mentioned in this publication are subject to change without notice. This publication supersedes and replaces all information without express written approval of Globaltech Semiconductor.

CONTACT US

GS Headquarter	
	4F.,No.43-1,Lane11,Sec.6,Minquan E.Rd Neihu District Taipei City 114, Taiwan (R.O.C)
	886-2-2657-9980
	886-2-2657-3630
	sales_twn@gs-power.com

Wu-Xi Branch	
	No.21 Changjiang Rd., WND, Wuxi, Jiangsu, China (INFO. & TECH. Science Park Building A 210 Room)
	86-510-85217051
	86-510-85211238
	sales_cn@gs-power.com

RD Division	
	824 Bolton Drive Milpitas. CA. 95035
	1-408-457-0587