

GSS3AB Series

General Purpose Rectifiers Surface Mount Device

Product Description

Reverse Voltage 50V To 1000V Forward Current 3.0A

Features

- High current capability
- High surge current capability
- Low reverse current
- Component in accordance to RoHS 2002/95/EC
- Lead(Pb)-Free

Mechanical Data

- Case : SMB (DO-214AA)
- Material : Molded Plastic. UL Flammability Classification Rating 94V-0
- Terminals : Lead Free Plating (Tin Finish). Solderable per MIL-STD-202, Method 208
- Polarity : Cathode Band
- Weight : 0.095 grams (approximate)

Packages



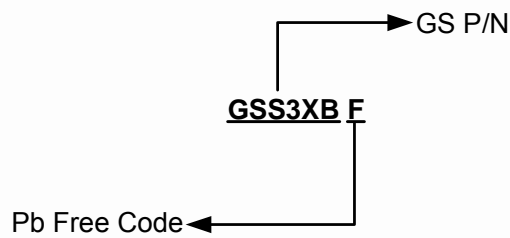
SMB (DO-214AA)

Marking Information

Part Number	Package	Marking
GSS3ABF	SMB (DO-214AA)	WTYYWW S3AB.
GSS3BBF	SMB (DO-214AA)	WTYYWW S3BB.
GSS3DBF	SMB (DO-214AA)	WTYYWW S3DB.
GSS3GBF	SMB (DO-214AA)	WTYYWW S3GB.
GSS3JBF	SMB (DO-214AA)	WTYYWW S3JB.
GSS3KBF	SMB (DO-214AA)	WTYYWW S3KB.
GSS3MBF	SMB (DO-214AA)	WTYYWW S3MB.

※ "WT" GS Code & "YYWW" Date Code
※ "S3XB" GS P/N & "." Halogen Free

Ordering Information



Part Number	Package	Quantity
GSS3ABF Series	SMB (DO-214AA)	3000 PCS

Electrical Characteristics

Rating 25°C Ambient Temperature Unless Otherwise Specified.

Symbol	Conditions	S3AB	S3BB	S3DB	S3GB	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	S3JB	S3KB	S3MB	Unit	
V_{RRM}	Maximum Repetitive 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 At 3.0A DC	1.15			V	
I_R	Maximum DC Reverse Current At Rated DC Blocking Voltage	$T_A = 25^\circ\text{C}$	10		uA	
		$T_A = 100^\circ\text{C}$	500			
C_J	Typical Junction Capacitance	60			pF	
$I_{F(AV)}$	Maximum Average Forward Rectified Current	3.0			A	
I_{FSM}	Peak Forward Surge Current, 8.3ms Single Half Sine-Wave Superimposed on Rated Load	100			A	
$R_{\theta JA}$	Thermal Resistance Junction to Ambient	20			°C/W	
T_J	Junction Temperature Range	-55 to +150			°C	
T_{STG}	Storage Temperature Range	-55 to +150			°C	

Typical Characteristics

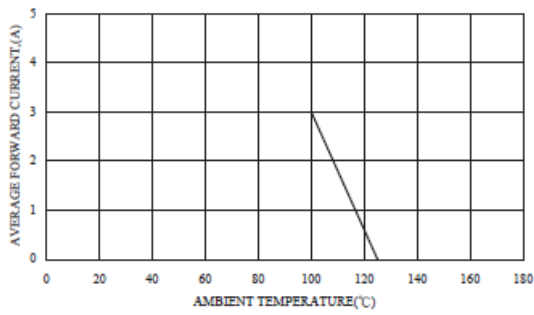


FIG. 1-TYPICAL FORWARD CURRENT DERATING CURVE

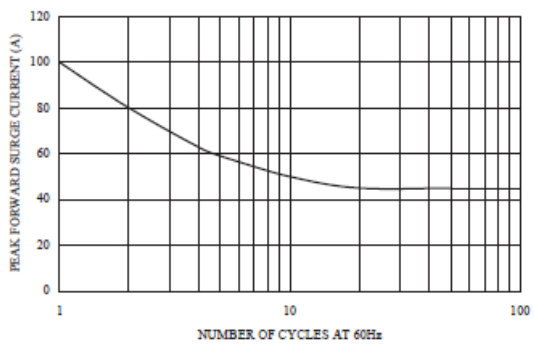


FIG. 3-MAXIMUM NON-REPETITIVE FORWARD SURGE CURRENT

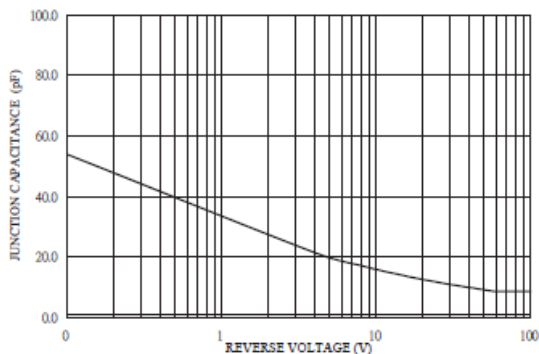


FIG. 4-TYPICAL JUNCTION CAPACITANCE

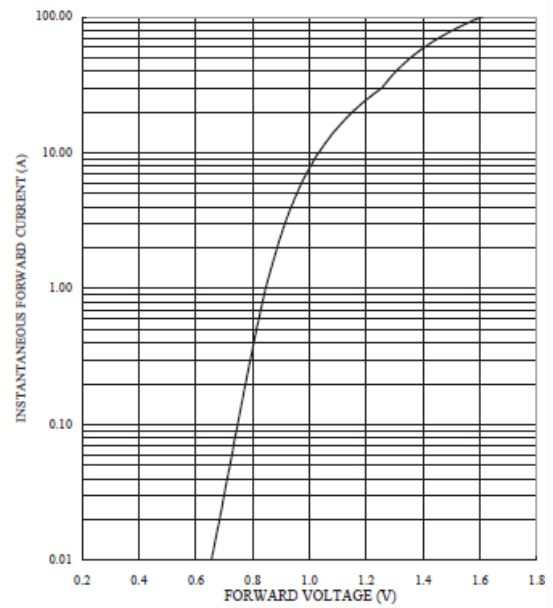


FIG. 2-TYPICAL FORWARD CHARACTERISTICS

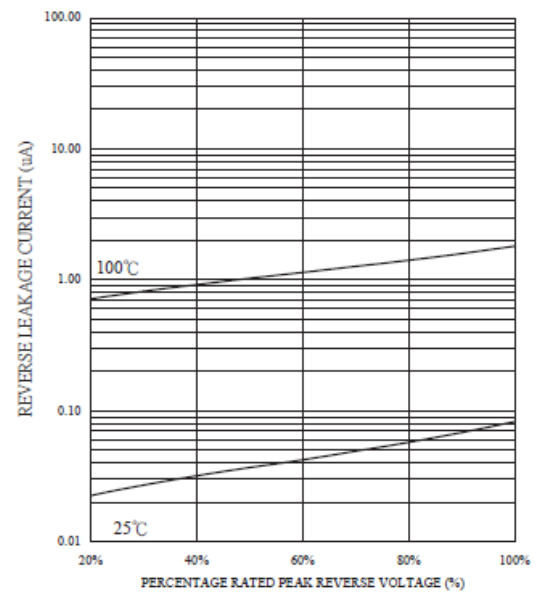
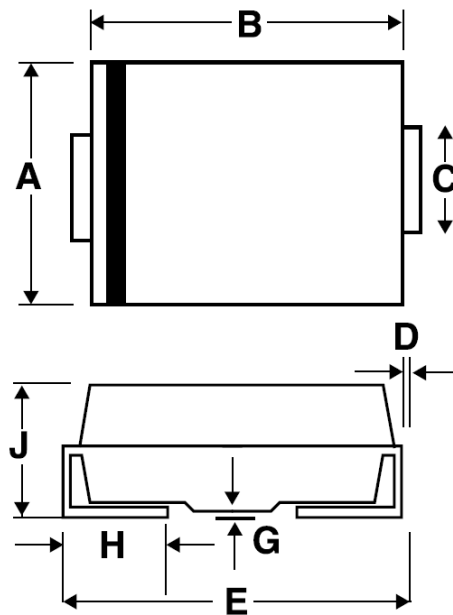


FIG. 5-TYPICAL REVERSE CHARACTERISTICS

Package Dimension

SMB (DO-214AA)







Dimensions





Symbol	Millimeters		Inches	
	Min	Max	Min	Max
A	3.30	3.94	0.129	0.155
B	4.06	4.80	0.159	0.188
C	1.96	2.21	0.077	0.087
D	0.15	0.31	0.005	0.012
E	5.00	5.59	0.196	0.220
G	0.10	0.20	0.003	0.007
H	0.76	1.52	0.029	0.059
J	2.00	2.62	0.078	0.103



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