

GSDSL32A Series

Low VF Surface Mount Schottky Barrier Rectifiers

Product Description

Reverse Voltage 20V To 40V Forward Current 3.0A

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 DO-214AC
- Terminals : Solder plated, solderable per MIL-STD-750,Method 2026
- Polarity : Indicated by cathode band
- Mounting Position : Any
- Weight : 0.05 gram

Packages

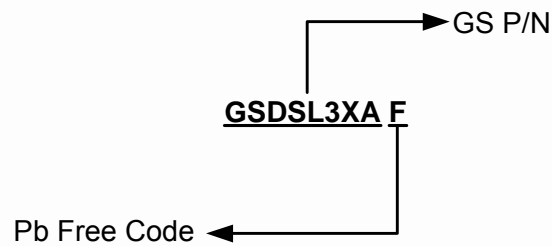


SMA-1

Marking Information

Part Number	Package	Marking
GSDSL32AF	SMA-1	SL32
GSDSL33AF	SMA-1	SL33
GSDSL34AF	SMA-1	SL34

Ordering Information



Part Number	Package	Quantity
GSDSL32AF	SMA-1	2000 PCS
GSDSL33AF	SMA-1	2000 PCS
GSDSL34AF	SMA-1	2000 PCS

Electrical Characteristics

Rating 25°C Ambient Temperature Unless Otherwise Specified.

Symbol	Conditions	SL32A	SL33A	SL34A	Unit
V_{RRM}	Maximum Repetitive Peak Reverse Voltage	20	30	40	V
V_{RMS}	Maximum RMS Voltage	14	21	28	V
V_R	Continuous Reverse Voltage	20	30	40	V
V_F	Maximum Instantaneous Forward Voltage	0.38	0.4	0.4	V
I_o	Forward Rectified Current (See Fig.2)	3.0			A
I_{FSM}	Peak Forward Surge Current, 8.3ms Single Half Sine-Wave Superimposed on Rated Load(JEDEC Method)	80			A
I_R	Maximum DC Reverse Current At Rated DC Blocking Voltage	$T_A=25^\circ\text{C}$	1.0		mA
		$T_A=100^\circ\text{C}$	10		
C_J	Typical Junction Capacitance f=1.0MHz and applied 4V DC reverse voltage	300(TYP)			pF
$R_{\theta JA}$	Typical Thermal Resistance	50(TYP)			°C/W
T_J	Junction Temperature Range	-55 to +125			°C
T_{STG}	Storage Temperature Range	-55 to +150			°C

Typical Characteristics

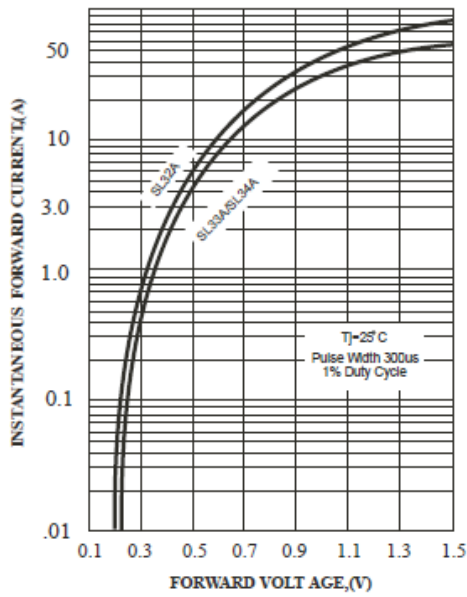


FIG.1-TYPICAL FORWARD CHARACTERISTICS

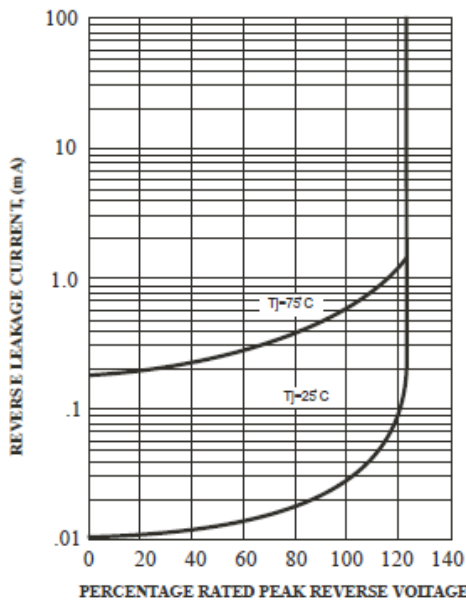


FIG.3 - TYPICAL REVERSE CHARACTERISTICS

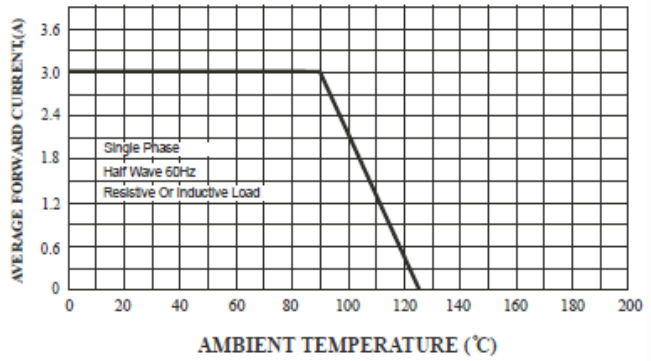


FIG.2-TYPICAL FORWARD CURRENT DERATING CURVE

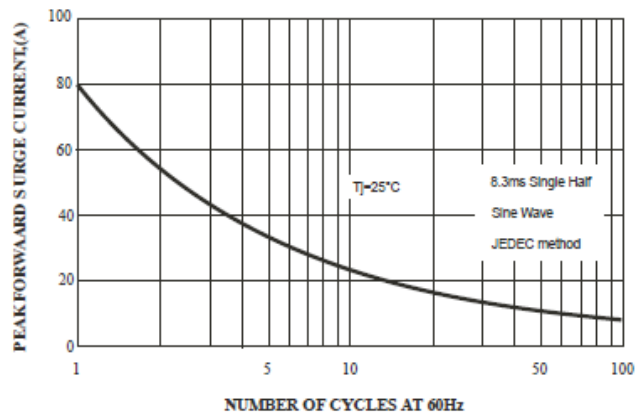


FIG.4-MAXIMUM NON-REPETITIVE FORWARD SURGE CURRENT

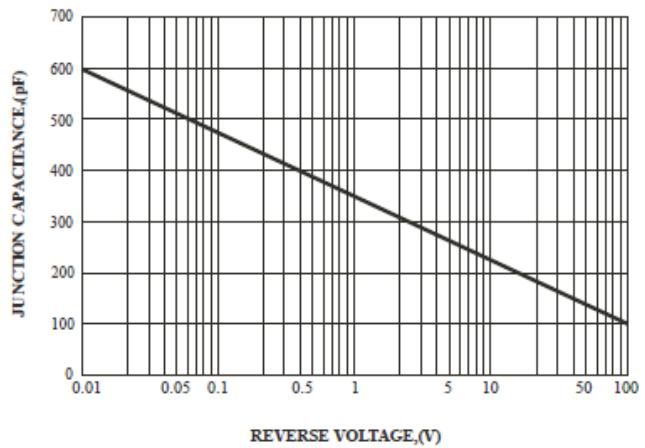
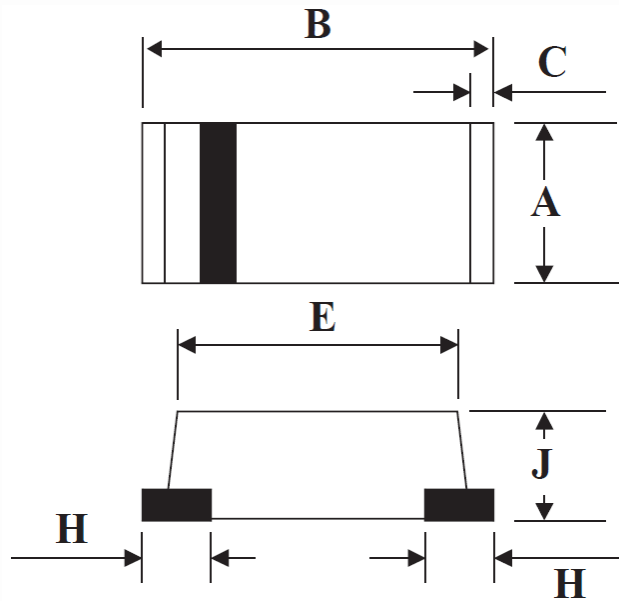


FIG.5-TYPICAL JUNCTION CAPACITANCE

Package Dimension

SMA-1



Dimensions				
Symbol	Millimeters		Inches	
	Min	Max	Min	Max
A	2.40	2.80	0.094	0.110
B	4.40	4.80	0.173	0.188
C	-	0.30 (TYP)	-	0.011 (TYP)
E	3.80	4.20	0.149	0.165
H	-	1.00 (TYP)	-	0.039 (TYP)
J	1.50	1.70	0.059	0.066


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