

# GSDSS3□□AF Series

## Schottky Barrier Diode

### Product Description

Reverse Voltage 40V to 200V.  
Forward Current 3.0A



### Features

- Low Forward Voltage Drop
- Low Power Loss, High Efficiency
- RoHS Compliant and Halogen Free

### Mechanical Data

- Case : Molded Plastic, SMA Package
- Terminals : Solderable per MIL-STD-750, Method 2026
- Polarity: Color Band denotes Cathode End

### Package and Pin Assignment

SMA (DO-214AC)		Equivalent Circuit
		
Pin	Description	
1	Anode	
2	Cathode	

### Ordering and Marking Information

Ordering Information			
Part Number	Package	Marking Code	Quantity/Reel
GSDSS34AF	SMA	SS34	5000 PCS
GSDSS36AF	SMA	SS36	5000 PCS
GSDSS315AF	SMA	SS315	5000 PCS
GSDSS320AF	SMA	SS320	5000 PCS

<b>GSDSS3 1 1 A F</b>		
<b>- Product Code:</b> GSDSS3	<b>- Voltage Code:</b> 1 1 is 4, 6, 15 and 20. For examples 4 stands for 40V and 20 stands for 200V	<b>- Package Code:</b> A for SMA Package
<b>- Green Level:</b> F for RoHS Compliant and Halogen Free		

## Marking Information

**SS3** □ □

- **Product Code:**  
SS3

- **Voltage Code:**  
□ □ is 4, 6, 15 and 20.  
For examples 4 stands for 40V  
and 20 stands for 200V

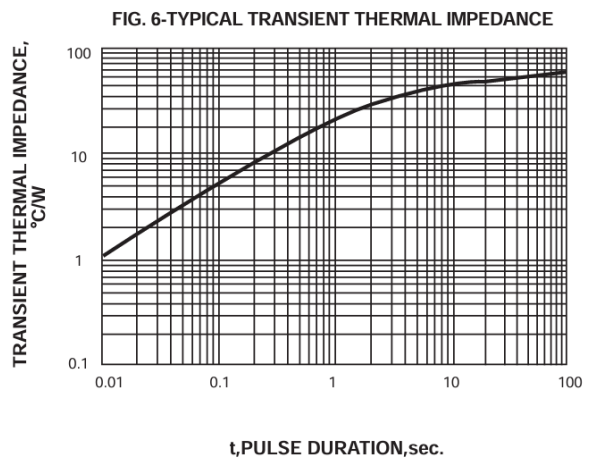
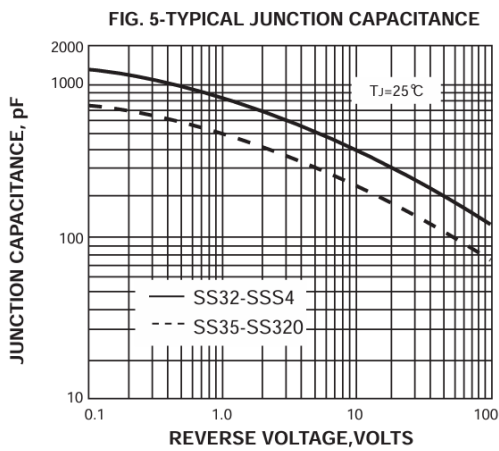
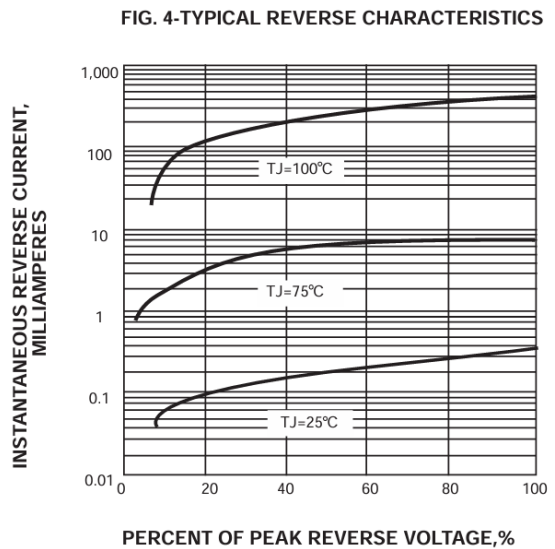
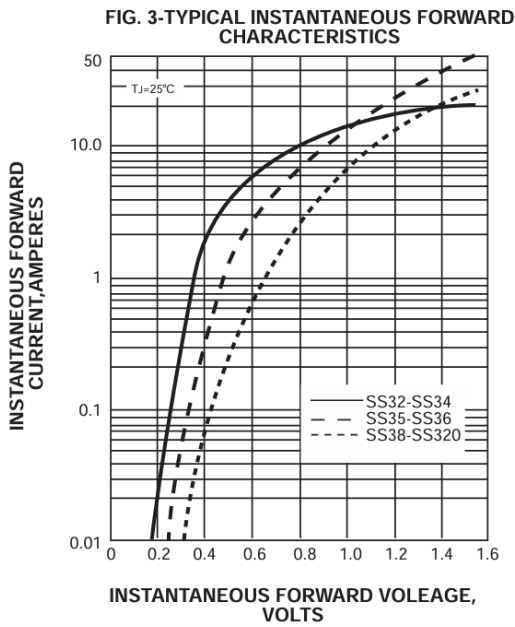
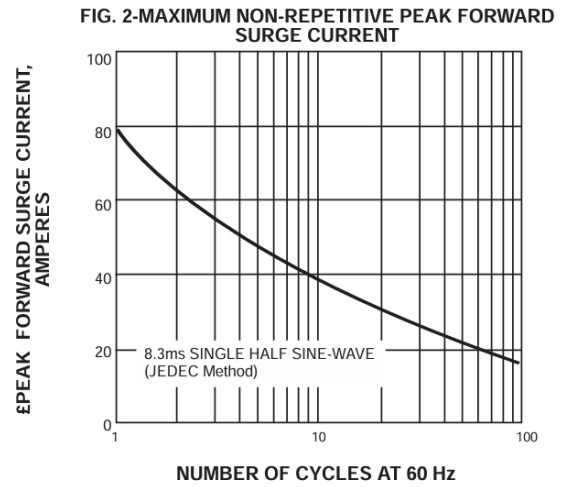
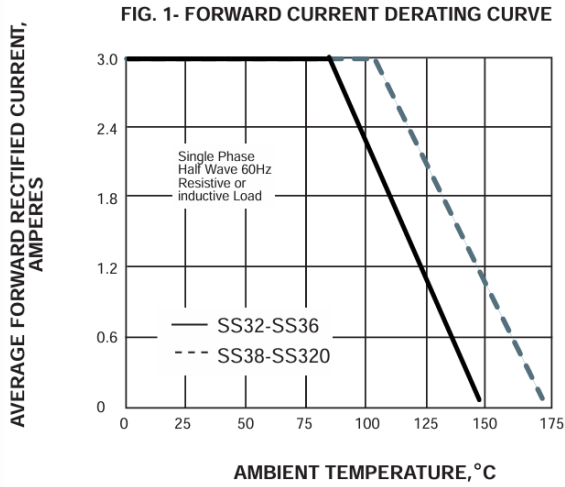
## Electrical Characteristics (Ratings at 25°C Ambient Temperature Unless Otherwise Specified.)

Symbol	Conditions	34AF	36AF	315AF	320AF	Unit
$V_{RRM}$	Maximum Recurrent Peak Reverse Voltage	40	60	150	200	V
$V_{RMS}$	Maximum RMS Voltage	28	42	105	140	V
$V_{DC}$	Maximum DC Blocking Voltage	40	60	150	200	V
$I_{F(AV)}$	Maximum Average Forward Rectified Current	3.0				A
$I_{FSM}$	Peak Forward Surge Current (8.3ms Single Half Sine-Wave)	80				A
$V_F$	Maximum Forward Voltage at 3.0A (Note1)	0.55	0.7	0.85	0.95	V
$I_R$	Maximum Reverse Leakage Current at rated $V_R$	$T_A = 25^\circ\text{C}$	0.5			mA
		$T_A = 100^\circ\text{C}$	20	10		
$C_J$	Typical Junction Capacitance <sup>(1)</sup>	500	300			pF
$R_{\theta JA}$	Typical Thermal Resistance <sup>(2)</sup>	88				°C/W
$T_J$	Operating Junction Temperature Range	-65 to +150				°C
$T_{STG}$	Storage Temperature Range	-65 to +150				°C

**NOTES:**

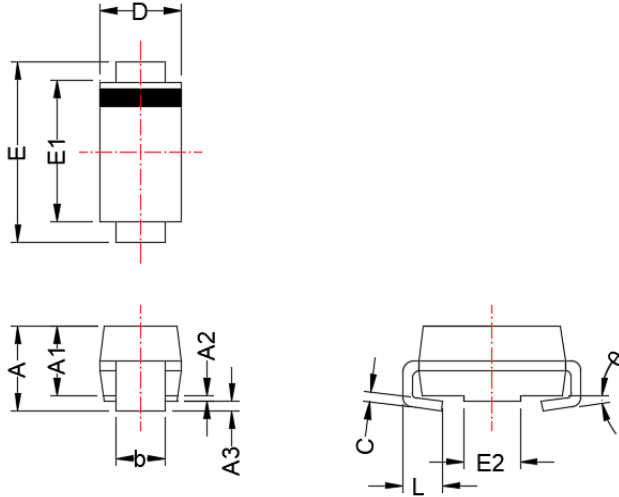
1. Measured at 1MHz and applied reverse voltage of 4.0  $V_{DC}$ .
2. Mounted with 0.2 x 0.2" (5.0 x 5.0mm) Copper Pad Areas

## Typical Characteristics (Ratings at 25°C Ambient Temperature Unless Otherwise Specified.)

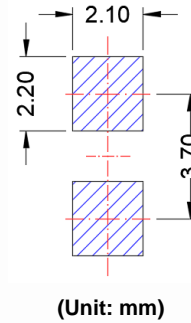


# SMA (DO-214AC)

## Package Dimension



## Recommended Land Pattern







Dimensions				
Symbol	Millimeters		Inches	
	Min	Max	Min	Max
A	1.90	2.90	0.075	0.114
A1	1.70	2.70	0.067	0.106
A2	---	0.20	---	0.008
A3	---	0.30	---	0.012
b	1.20	1.70	0.047	0.067
c	0.14	0.41	0.006	0.016
D	2.18	2.95	0.086	0.116
E	4.70	5.60	0.185	0.220
E1	3.90	4.60	0.154	0.181
E2	1.40	1.90	0.055	0.075
L	0.75	1.6	0.030	0.063
$\theta$	0°	8°	0°	8°



**NOTE:**  
DIMENSION DOES NOT INCLUDE MOLD FLASH, PROTRUSIONS OR GATE BURRS.

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