GSDSS1 AF Series

Schottky Barrier Diode

Product Description

Reverse Voltage 40V to 200V. Forward Current 1.0A

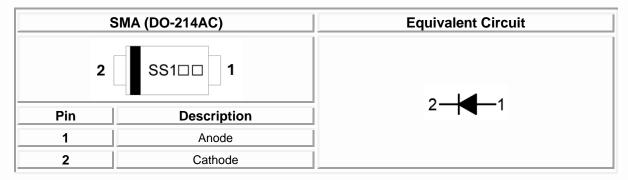
Features

- Low Forward Voltage Drop
- Low Power Loss, High Efficiency
- High Current Capacity
- 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



Ordering and Marking Information

Ordering Information			
Part Number	Number Package Marking Code Quantity/Re		Quantity/Reel
GSDSS14AF	SMA	SS14	5000 PCS
GSDSS16AF	SMA	SS16	5000 PCS
GSDSS110AF	SMA	SS110	5000 PCS
GSDSS120AF	SMA	SS120	5000 PCS

GSDSS1 1 1 2 3

- **Product Code:**GSDSS1
- Voltage Code:
 - 1 is 4, 6, 10 and 20.
 For examples 4 stands for 40V and 20 stands for 200V
- Package Code:

2 is A for SMA Package

- Green Level:
 - 3 is F for RoHS Compliant and

Halogen Free



Marking Information

SS1 1 1

- Product Code:

SS1

- Voltage Code:

1 1 is 4, 6, 10 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	Condit	ions	14AF	16AF	110AF	120AF	Unit
VRRM	Maximum Recurrent Peak Reverse Voltage		40	60	100	200	V
V _{RMS}	Maximum RMS Voltage		28	42	71	140	V
V _{DC}	Maximum DC Blocking Voltage		40	60	100	200	V
I _{F(AV)}	Maximum Average Forward Rectified Current		1.0			A	
I _{FSM}	Peak Forward Surge Current (8.3ms Single Half Sine-Wave)			А			
VF	Maximum Forward Voltage at 1.0A (Note1)		0.55	0.7	0.85	0.95	V
	Maximum Reverse	T _A = 25°C		0.5		0.2	
I _R	I _R Leakage Current at rated V _R	T _A = 100°C	10 5		mA		
Тл		ating Junction -65 to +125 -65 to +150		+150	°C		
Tstg	Storage Temperature Range -65 to +150			°C			

NOTES:

- 1. Pulse test: $300\mu s$ pulse width, 1% duty cycle
- 2. P.C.B. 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.)

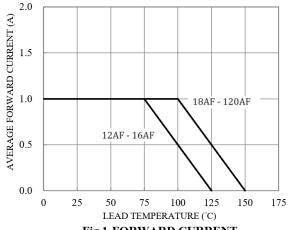


Fig.1-FORWARD CURRENT DERATING CURVE

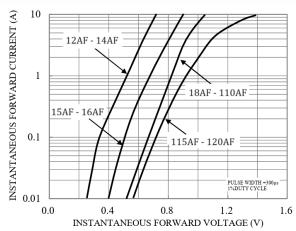


Fig.2-TYPICAL INSTANTANEOUS FORWARD CHARACTERISTICS

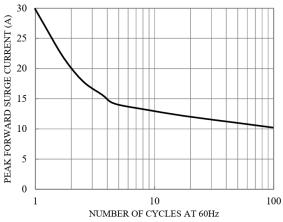


Fig.3-MAXIMUM NON-REPETITIVE SURGE CURRENT

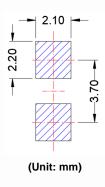


SMA (DO-214AC)

Package Dimension

Ψ

Recommended Land Pattern



	Dimensions				
Symbol	Milli	meters	Inches		
	Min	Max	Min	Max	
Α	1.90	2.90	0.075	0.114	
A 1	1.70	2.70	0.067	0.106	
A2		0.20		0.008	
А3		0.30		0.012	
b	1.20	1.70	0.047	0.067	
С	0.14	0.41	0.006	0.016	
D	2.18	2.95	0.086	0.116	
Е	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	
θ	0 °	8 °	0 °	8 °	

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



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CONTACT US

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

RD Division		
\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	824 Bolton Drive Milpitas. CA. 95035	
<u></u>	1-408-457-0587	

