GSDSS5□□A1F Series

Schottky Barrier Diode

Product Description

Reverse Voltage 40V to 200V. Forward Current 5.0A

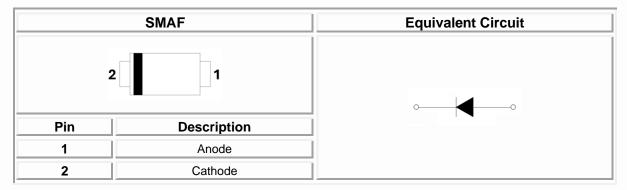
Features

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

Mechanical Data

- Case: Molded Plastic, SMAF 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 Package Marking Code Quantity/Ree		Quantity/Reel	
GSDSS54A1F	SMAF	SS54	3000 PCS
GSDSS56A1F	SMAF	SS56	3000 PCS
GSDSS510A1F	SMAF	SS510	3000 PCS
GSDSS515A1F	SMAF	SS515	3000 PCS
GSDSS520A1F	SMAF	SS520	3000 PCS

GSDSS5 1 1 A1 F

- **Product Code:**GSDSS5
- Voltage Code:

and 20 stands for 200V

- 1 is 4, 6, 10, 15 and 20. For examples 4 stands for 40V
- Package Code:
 - A1 for SMAF Package

- Green Level:
 - F for RoHS Compliant and

Halogen Free



Marking Information

SS5 1 1

- Product Code:

SS5

- Voltage Code:

ightharpoonup is 4, 6,10, 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. Single phase, half wave, 60HZ, resistive or inductive load. For capacitive load, derate current by 20%.)

Symbol	Description	54A1F	56A1F	510A1F	515A1F	520A1F	Unit	
V _{RRM}	Maximum Repetitive Peak Reverse Voltage	40	60	100	150	200	V	
V _{RMS}	Maximum RMS Voltage	28	42	70	105	140	V	
V _{DC}	Maximum DC Blocking Voltage	40	60	100	150	200	V	
I _(AV)	Maximum Average Forward Rectified Current	5.0			Α			
Ifsm	Peak Forward Surge Current, 8.3ms Single Half-Sine-Wave Superimposed on rated Load (JEDEC Method)	120			A			
V _F	Maximum Forward Voltage at 5.0A	0.55	0.70	0.	85	0.95	V	
I _R	Maximum Reverse Current at Rated DC Blocking Voltage T _A =25°C	0.5 0.2			mA			
	T _A =100°C	2	20	10	2	0		
Сл	Typical Junction Capacitance ⁽¹⁾	200			pF			
Reja	Typical Thermal Resistance ¹	50			°C/W			
TJ	Junction Temperature Range	-65 to 150			°C			
T _{STG}	Storage Temperature Range	-65 to 150			°C			

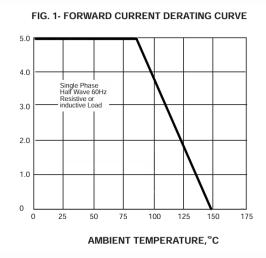
NOTES:

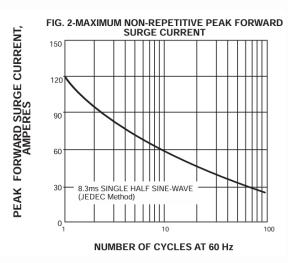
- 1. Measured at 1MHz and applied reverse voltage of 4.0 V_{DC}.
- 2. Mounted with 0.2 x 0.2" (5.0 x 5.0mm) Copper Pad Areas

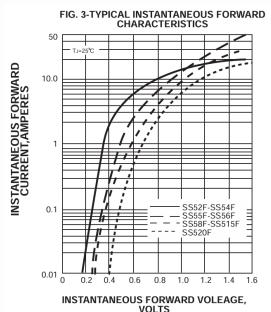


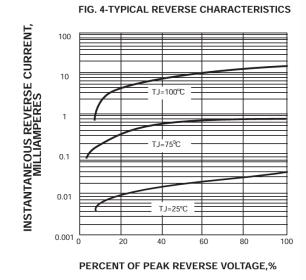
Typical Characteristics (Ratings at 25°C Ambient Temperature Unless Otherwise Specified.)

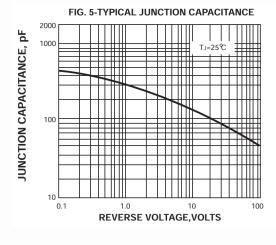


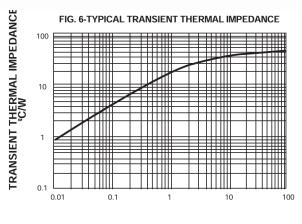












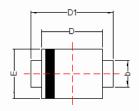
t,PULSE DURATION,sec.

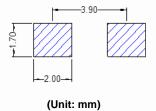


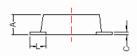
SMAF

Package Dimension

Recommended Land Pattern









Dimensions				
SYMBOL	Millimeters		Inches	
	MIN	MAX	MIN	MAX
Α	0.90	1.30	0.035	0.051
b	1.20	1.60	0.047	0.063
D	3.25	3.75	0.128	0.147
D1	4.30	4.90	0.169	0.193
Е	2.30	2.70	0.091	0.106
С	0.05	0.3	0.002	0.012
L	1.20 MAX		0.047 MAX	

NOTE:

Dimensions are exclusive of Burrs, Mold Flash and Tie Bar extrusions.



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