GSDST14N1F

Schottky Diode

Product Description

Schottky Barrier Diode 40V and 1A

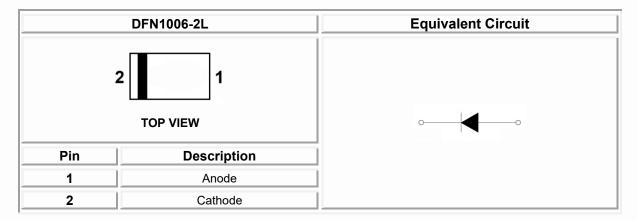
Features

- Low Forward Voltage
- Trench Schottky Barrier Technology

Mechanical Data

- DFN1006-2L Package
- Color Band denotes Cathode End
- RoHS Compliant and Halogen Free

Packages & Pin Assignments



Ordering and Marking Information

Ordering Information			
Part Number	Package	Part Marking	Quantity / Reel
GSDST14N1F	14N1F DFN1006-2L X 10,000		10,000 PCS
Product Code:	- Package Code:	- Greer	n Level:
GSDST14	N1 is DFN1006-2L F is RoHS Compliant and		oHS Compliant and
	Halogen Free		en Free
	Marking Inforn	nation	
	- Product Code:		
	□ Is X		
	- Color Band		
	Cathode End		



Absolute Maximum Ratings (T_A=25°C unless otherwise specified)

Symbol	Parameter	Rating	Unit
V _{RRM}	Maximum repetitive peak reverse voltage	40	V
V _{RMS}	Maximum RMS voltage	28	V
V _{DC}	Maximum DC blocking voltage	40	V
I _{F(AV)}	Maximum average forward rectified current	1	A
IFSM	Peak forward surge current*	5	A
PD	Power Dissipation T _A =25°C	0.6	W
TJ	Junction Temperature Range	-55 to +150	°C
Tstg	Storage Temperature Range	-55 to +150	°C

^{* 8.3} ms single half sine-wave superimposed on rated load.

Electrical Characteristics (T_A=25°C unless otherwise specified)

Symbol	Description	Description Conditions		Max	Unit
V _{BR}	Breakdown Voltage	I _R =0.5mA	40	-	V
	Instantaneous Forward Voltage	I _F =100mA	-	375	mV
V _F		I _F =500mA	-	485	
	1 orward voltage	I _F =1000mA	-	600	
I _R	Reverse Leakage Current	V _R = 10V	-	30	
		V _R = 40V	-	100	μΑ



Performance Characteristics (T_A=25°C unless otherwise specified)

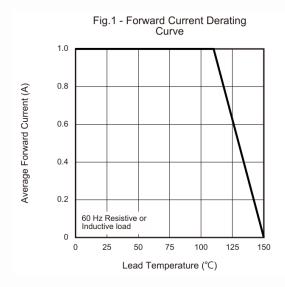


Fig.3 - Typical Reverse Characteristics

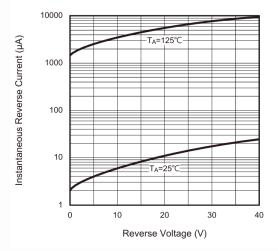
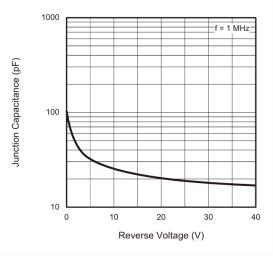


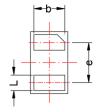
Fig.4 - Capacitance Characteristics



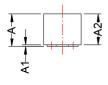


DFN1006-2L

Package Dimension

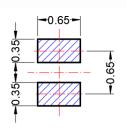


BACKSIDE VIEW





Recommended Land Pattern



(Unit: mm)

	Dimensions			
Symbol	Millimeters		Inches	
Symbol	Min	Max	Min	Max
Α	0.45	0.60	0.018	0.024
A1	0.00	0.05	0.000	0.002
A2	0.40	0.60	0.016	0.024
b	0.45	0.55	0.018	0.022
D	0.55	0.65	0.022	0.026
E1	0.95	1.05	0.037	0.041
e1	0.65 BSC		0.02	26 BSC
L	0.20	0.30	0.008	0.012

NOTE:

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



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