GSDS1045VF

Schottky Diode

Product Description

Schottky Barrier Diode 45V and 10A

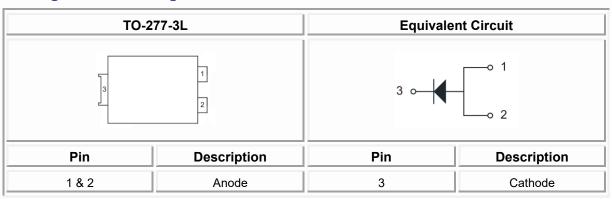
Features

■ Low Forward Voltage

Mechanical Data

- TO-277-3L. Package
- RoHS Compliant and Halogen Free

Package and Pin Assignment



Ordering and Marking Information

GS P/N	Package	Marking	Quantity / Reel
GSDS1045VF	TO-277-3L	□□□ SL1045	5,000PCS
GSDS1045VF - Product Code: GSDS1045	 Package Code: V for TO-277-3L Green Level: F for RoHS Compliant and Halogen Free 		
Marking Information			
SL1045 2	- Product Code SL1045 - Band denotes		GS Code: □□□



Absolute Maximum Ratings $T_A=25^{\circ}\text{C}$ unless otherwise specified. Single phase, half wave, 60Hz, resistive or inductive load. For capacitive load, derate current by 20%.

Symbol	Parameter	Value	Unit
V _{RRM}	Maximum Repetitive Peak Reverse Voltage	45	V
V _{RMS}	Maximum RMS Voltage	31.5	V
V _{DC}	Maximum DC Blocking Voltage	45	V
I _{F(AV)}	Maximum Average Forward Rectified Current	10	А
IFSM	Non-Repetitive Peak Forward Current (8.3ms Single Half Sin-Wave)	250	А
Rejl	Typical Thermal Resistance from Junction to Lead	20	°C /W
TJ	Junction Temperature	-55 to +150	°C
Тѕтс	Storage Temperature Range	-55 to +150	°C

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

Symbol	Parameter	Conditions	Min	Тур	Max	Unit
VF	Instantaneous Forward Voltage	I _F =10A			0.45	V
I _R Reverse Current	Poverse Current	V _R =45V, T _A =25°C			0.3	mA
	Reverse Current	V _R =45V, T _A =125°C			100	IIIA



Typical Characteristics (T_A=25° unless otherwise specified)

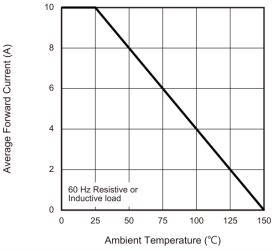


Fig.1 Forward Current Derating Curve

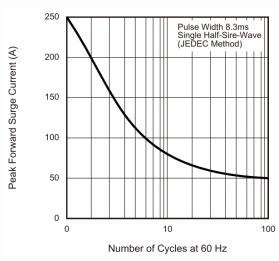


Fig.2 Maximum Non-Repetitive Peak Forward Surge Current

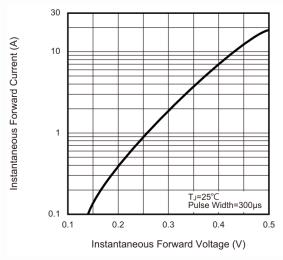


Fig.3 Instantaneous Forward Characteristics

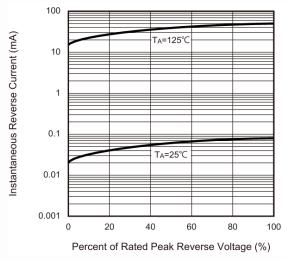


Fig.4 Reverse Leakage Characteristics



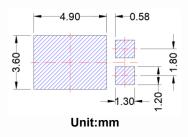
TO-277-3L

Package Dimension

BACKSIDE VIEW



Recommended Land Pattern



	Dimensions				
	Millimeters		Inches		
Symbol	MIN	MAX	MIN	MAX	
Α	0.95	1.40	1.18	0.037	
С	0.18	0.45	0.32	0.007	
b	0.75	1.05	0.90	0.030	
b1	1.65	1.95	1.80	0.065	
b2	2.70	3.30	3.00	0.106	
D	5.10	5.85	5.48	0.201	
D1	6.35	6.65	6.50	0.250	
E	3.80	4.35	4.08	0.150	
е	1.65	2.05	1.85	0.065	
L	0.6	1.15	0.88	0.024	
L1	4.05	4.60	4.33	0.159	

NOTE:

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



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