1N5822



40V, 3A Schottky Diode Axial Leaded

HIGH-RELIABILITY PRODUCTS

Features

- VRWM = 40V
- I_R = 0.10mA
- V_F = 0.50V at I_F = 3.0A
- Hard glass hermetically sealed
- Metallurgically bonded
- Double plug construction
- Axial leaded for through-hole mounting

Description

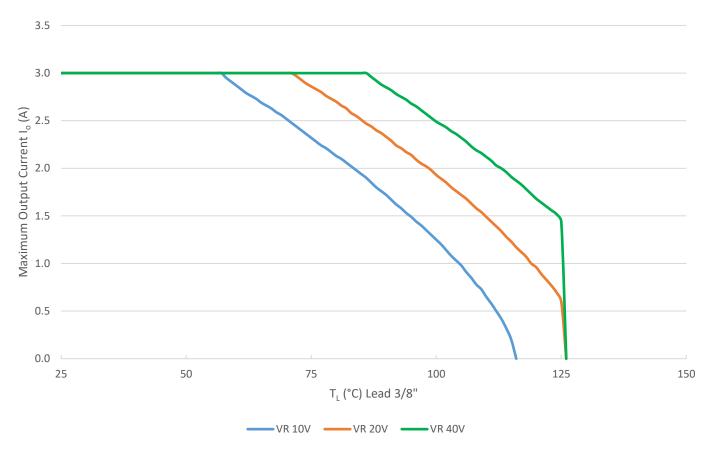
1N5822 is an axial leaded Schottky rectifier rated 40V, 3A.

This product is qualified to MIL-PRF-19500/620 and can be supplied as JAN, JANTX and JANTXV versions.

Absolute Maximum Ratings $T_A = 25$ °C unless otherwise specified.

	Symbol	1N5822	Units
Working Reverse Voltage	Vrwm	40	V
Maximum Forward Voltage	V _{FM1} @ 1.0A V _{FM2} @ 3.0A V _{FM3} @ 9.4A	0.40 0.50 0.70	V V V
Maximum Reverse Leakage Current	I _{RM} @ 40V	0.10	mA
Junction Temperature	TJ	-65 to +125	°C
Storage Temperature	T _{STG}	-65 to +150	°C
Thermal Resistance Junction to Lead 0.375" Lead Length	Rejl	30	°C/W
Surge Peak Forward Current @ T _A = 25 °C (Test Pulse = 8.3ms)	Ifsm	80	A(pk)
Thermal Impedance	Z _{θJX}	2.5	°C/W
Average Rectified Output Current @ TL = 25 °C	lo	3	А



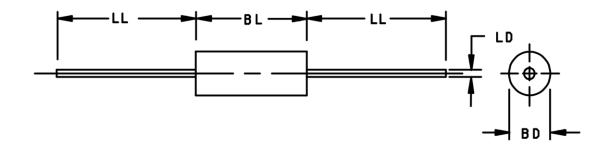


Sinewave operating 50% duty cycle Thermal Resistance Junction to Lead 3/8" =30.0 °C/W

Notes:

- This is the true inverse of the worst case thermal resistance value. All devices are capable of operating ≤ T_J specified on this curve. Any parallel line to this curve will intersect the appropriate power for the desired maximum T_J allowed.
- 2. This temperature-current derating curve varies with applied voltage.

Outline Drawing



Dimensions					
Symbol	Inches		Millimeters		
	Min	Max	Min	Max	
BD	.115	.145	2.92	3.68	
BL	.130	.195	3.30	4.95	
LD	.036	.042	0.91	1.07	
LL	.900	1.300	22.86	33.02	

Notes:

- 1. Dimensions are in inches. Millimeters are given for information only
- 2. Dimensions are pre-solder dip
- 3. In accordance with ASME Y14.5M, diameters are equivalent to ϕ_X symbology
- 4. Terminal finish: 63/37 solder. Consult factory for SAC finish



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