

40V, 3A Schottky Diode Axial Leaded

HIGH-RELIABILITY PRODUCTS

Features

- V_{RWM} = 40V
- $I_R = 0.10 \text{mA}$
- $V_F = 0.50V$ at $I_F = 3.0A$
- Hard glass hermetically sealed
- Metallurgically bonded
- Double plug construction
- · Axial leaded for through-hole mounting

Description

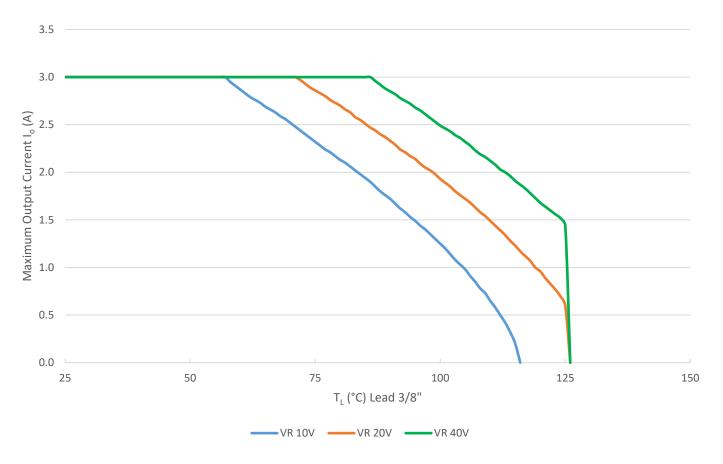
1N5822 is an axial leaded Schottky rectifier rated 40V, 3A.

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	V_{RWM}	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	ZeJX	2.5	°C/W
Average Rectified Output Current @ T _L = 25 °C	lo	3	А



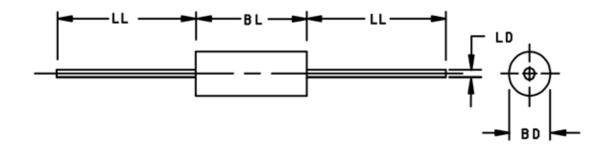


Sinewave operating 50% duty cycle Thermal Resistance Junction to Lead 3/8" =30.0 °C/W

Notes:

- 1. 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

Rev. 1.0

- 3. In accordance with ASME Y14.5M, diameters are equivalent to φx symbology
- 4. Terminal finish: 63/37 solder. Consult factory for SAC finish