Silicon Switching Diodes



A passion for performance.

Features

- Available in JAN, JANTX, and JANTXV per MIL-PRF-19500/116
- · Metallurgically Bonded
- Hermetically Sealed
- · Double Plug Construction

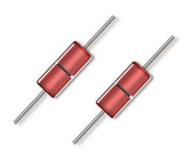
Maximum Ratings

Operating & Storage Temperature: -65°C to +200°C

Operating Current: 200 mA @ $T_A = +25$ °C

Derating Factor: 1.14 mA/°C above $T_A = +25$ °C

Surge Current A: 2A, sinewave, $P_W = 8.3 \text{ ms}$

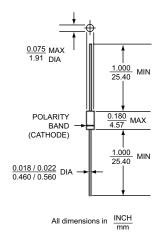


Electrical Specifications @ +25 °C (Unless Otherwise Specified)

JEDEC TYPE Number	V _{BR} @ 100 μA	V _{RWM}	IO	V_{f1} $I_F = 10 \text{ mA}$	V_{f2} $I_F = 50 \text{ mA}$	T _{rr} (Note 1)	I _{R1} @ 20 Vdc	_	I _{R3} @ 20 Vdc T _A =150°C	I _{R4} @ 75 Vdc T _A =150°C	Capacitance @ 0V	Capacitance @ 1.5 V
	Volts	Volts (pk)	mA	Vdc	Vdc	nsec	nA	μΑ	μΑ	μΑ	pF	pF
1N914	100	75	75	0.8	1.2	5	25	0.5	35	75	4.0	2.8
1N4148-1	100	75	200	0.8	1.2	5	35	0.5	35	75	4.0	2.8

Note1: $I_F = I_R = 10$ mA, $R_L = 100$ ohms.

Outline Drawing



LEADED DESIGN DATA

CASE: Hermetically sealed glass case per MIL-S-19500/116, DO - 35

LEAD MATERIAL: Copper clad steel

LEAD FINISH: Tin / Lead

THERMAL RESISTANCE: ($R_{\Theta,JL}$): 250 °C/W maximum at L = 0.375 in

THERMAL IMPEDANCE: (Z_{O.JX}): 70 °C/W maximum

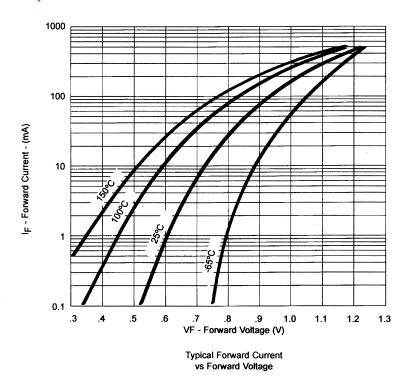
POLARITY: Cathode end is banded.

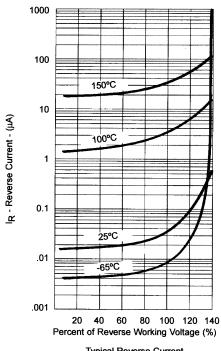


Revision Date: 9/15/2010 New Product



Graphs





Typical Reverse Current vs Reverse Voltage

NOTE: All temperatures shown on graphs are junction temperatures

Aeroflex / Metelics, Inc.

975 Stewart Drive, Sunnyvale, CA 94085 Tel: (408) 737-8181 Fax: (408) 733-7645

Sales: 888-641-SEMI (7364)

Hi-Rel Components
9 Hampshire Street,
Lawrence, MA 01840
Tel: (603) 641-3800
Fax: (978) 683-3264

www.aeroflex.com/metelics-hirelcomponents

www.aeroflex.com/metelics metelics-sales@aeroflex.com

54 Grenier Field Road,

Tel: (603) 641-3800

Fax: (603)-641-3500

Londonderry, NH 03053

Aeroflex / Metelics, Inc. reserves the right to make changes to any products and services herein at any time without notice. Consult Aeroflex or an authorized sales representative to verify that the information in this data sheet is current before using this product. Aeroflex does not assume any responsibility or liability arising out of the application or use of any product or service described herein, except as expressly agreed to in writing by Aeroflex; nor does the purchase, lease, or use of a product or service from Aeroflex convey a license under any patent rights, copyrights, trademark rights, or any other of the intellectual rights of Aeroflex or of third parties.

Copyright 2009 Aeroflex / Metelics. All rights reserved.

ISO 9001: 2008 certified companies









Our passion for performance is defined by three attributes represented by these three icons: solution-minded, performance-driven and customer-focused.