

Silicon Switching Diode Series 1N914UR & 1N4148UR-1

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 +175°C

Surge Current A, sine 8.3mS: 2.0 A Surge Current B, square 8.3mS: 0.704 A

Operating Current: $125\text{mA}, T_A = +75^{\circ}\text{C}$

Derating Factor: 2.0 mA/ $^{\circ}$ C above T_A= +25 $^{\circ}$ C

D.C. Reverse Voltage (VRWM): 75V



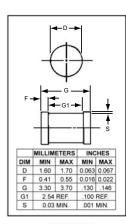
A passion for performance

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

JEDEC TYPE Number	V _{BR} @ 100 μA	V _{RWM}	lO	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
1N914UR	100	75	75	0.8	1.2	5	25	0.5	35	75	4.0	2.8
1N4148UR-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, $R_I = 100$ ohms.

Outline Drawing



LEADED DESIGN DATA

CASE: DO-213AA, Hermetically sealed glass case. (MELF, SOD-80, LL34)

LEAD FINISH: Tin / Lead

THERMAL RESISTANCE: $(R_{\Theta,JFC})$: 100 °C/W maximum at L = 0 inch

THERMAL IMPEDANCE: (Z_{O IX}): 25 °C/W maximum

POLARITY: Diode to be operated with the banded (cathode) end positive.

MOUNTING POSITION: Any.

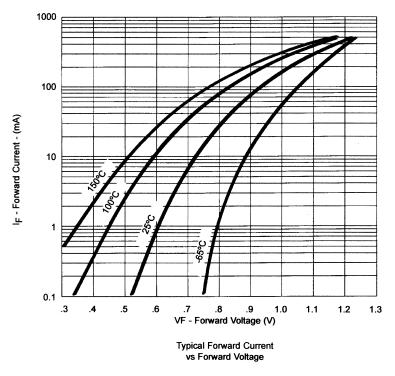


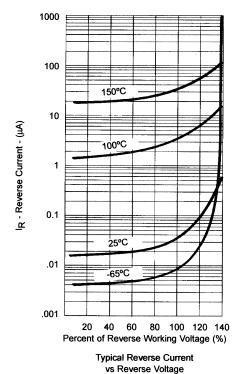
Revision Date: 11/23/2009 New Product





Graphs





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.

Revision Date: 11/23/2009