



# 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

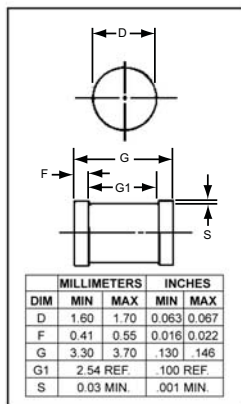
Operating & Storage Temperature: -65°C to +175°C  
 Surge Current A, sine 8.3ms: 2.0 A  
 Surge Current B, square 8.3ms: 0.704 A  
 Operating Current: 125mA,  $T_A = +75^\circ\text{C}$   
 Derating Factor: 2.0 mA/°C above  $T_A = +25^\circ\text{C}$   
 D.C. Reverse Voltage (VRWM): 75V

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

JEDEC TYPE Number	$V_{BR}$ @ 100 $\mu\text{A}$	$V_{RWM}$	$I_O$	$V_{f1}$ $I_F = 10 \text{ mA}$	$V_{f2}$ $I_F = 50 \text{ mA}$	$T_{rr}$ (Note 1)	$I_{R1}$ @ 20 Vdc	$I_{R2}$ @ 75 Vdc	$I_{R3}$ @ 20 Vdc $T_A = 150^\circ\text{C}$	$I_{R4}$ @ 75 Vdc $T_A = 150^\circ\text{C}$	Capacitance @ 0V	Capacitance @ 1.5 V
	Volts	Volts (pk)	mA	Vdc	Vdc	nsec	nA	$\mu\text{A}$	$\mu\text{A}$	$\mu\text{A}$	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

Note 1:  $I_F = I_R = 10 \text{ mA}$ ,  $R_L = 100 \text{ ohms}$ .

### Outline Drawing



#### LEADED DESIGN DATA

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

**LEAD FINISH:** Tin / Lead

**THERMAL RESISTANCE:** ( $R_{\theta JEC}$ ): 100 °C/W maximum at L = 0 inch

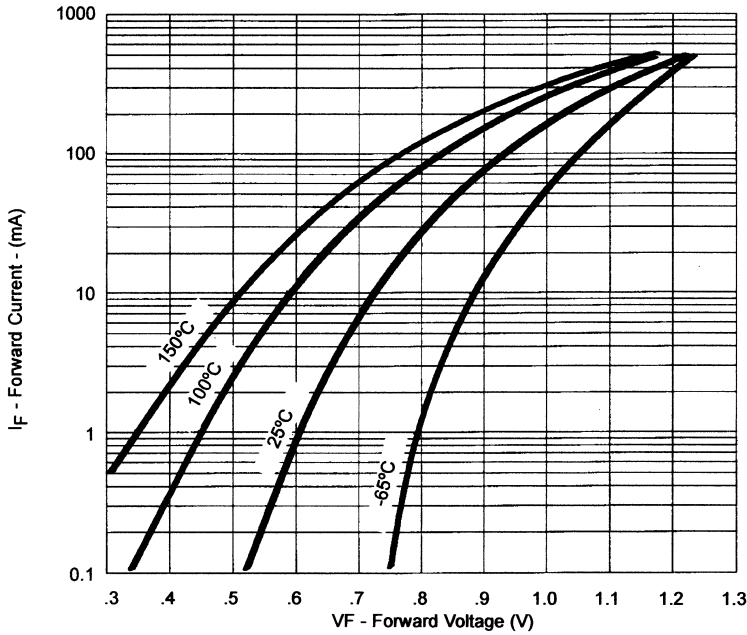
**THERMAL IMPEDANCE:** ( $Z_{\theta JX}$ ): 25 °C/W maximum

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

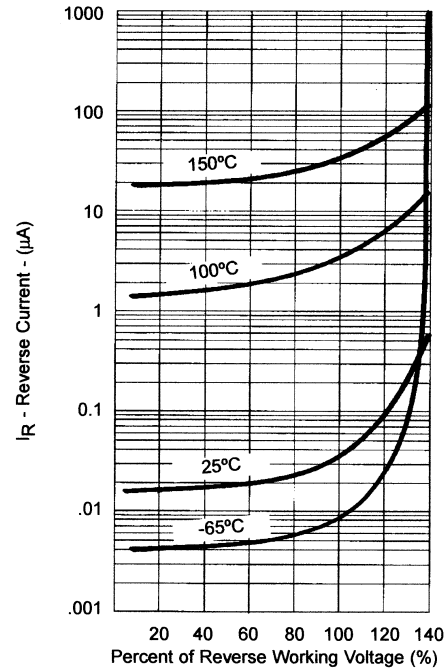
**MOUNTING POSITION:** Any.



Graphs



Typical Forward Current vs Forward Voltage



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](http://www.aeroflex.com/metelics-hirelcomponents)

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