

# 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 0.704 A Surge Current B, square 8.3mS:

**Operating Current:** 125mA,  $T_A = +75$ °C

Derating Factor: 2.0 mA/°C above  $T_A = +25$ °C

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





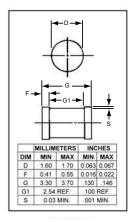
A passion for performance

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

JEDEC TYPE Number	V <sub>BR</sub> @ 100 ∏A	V <sub>RWM</sub>	lO	$V_{f1}$ $I_F = 10 \text{ mA}$	$V_{f2}$ $I_F = 50 \text{ mA}$	T <sub>rr</sub> (Note 1)	I <sub>R1</sub> @ 20 Vdc	I <sub>R2</sub> @ 75 Vdc	I <sub>R3</sub> @ 20 Vdc T <sub>A</sub> =150°C	I <sub>R4</sub> @ 75 Vdc T <sub>A</sub> =150°C	Capacitance @ 0V	Capacitance @ 1.5 V
	Volts	Volts (pk)	mA	Vdc	Vdc	nsec	nA	ΠA	□A	ΠA	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<sub>O IX</sub>): 25 °C/W maximum

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

**MOUNTING POSITION:** Any.

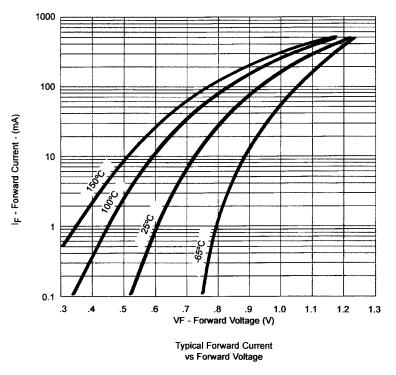


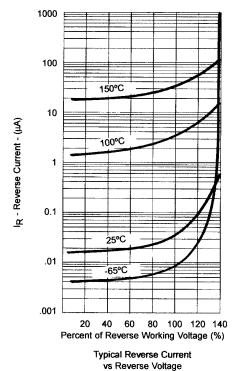
Revision Date: 11/23/2009 **New Product** 





#### **Graphs**





NOTE: All temperatures shown on graphs are junction temperatures

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

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