

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





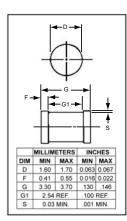
A passion for performance

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

JEDEC TYPE Number	V _{BR} @ 100 μA	V _{RWM}	lo	$I_F = 10 \text{ mA}$	V_{f2} $I_F = 50 \text{ mA}$	T _{rr} (Note 1)	I _{R1} @ 20 Vdc	I _{R2} @ 75 Vdc		I _{R4} @ 75 Vdc T _A =150°C	Capacitance @ 0V	Capacitance @ 1.5 V
	Volts	Volts (pk)	mA	Vdc	Vdc	nsec	nA	μΑ	μА	μА	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.

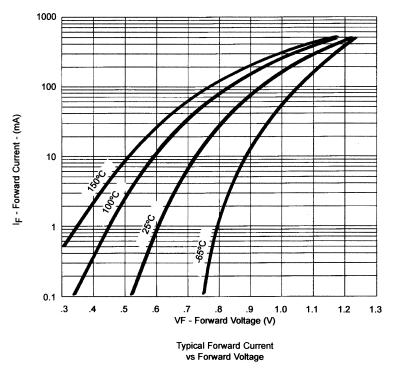


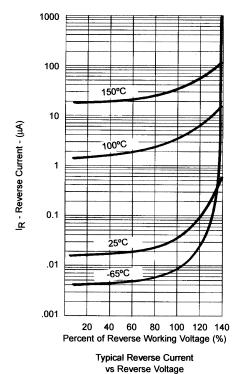
Revision Date: 11/23/2009 **New Product**





Graphs





NOTE: All temperatures shown on graphs are

junction temperatures

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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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