1N914UR & 1N4148UR-1



Silicon Switching Diode

Rev. V2

Features

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



Operating & Storage Temperature: -65°C to +175°C

Operating Current: 125 mA @ T_A = +75°C Derating Factor: 2.0 mA/°C above T_A = +25°C Surge Current A: 2.00 A, sinewave, Pw = 8.3 ms Surge Current B: 0.704 A, square, Pw = 8.3 ms

DC Reverse Voltage (VRWM): 75 V



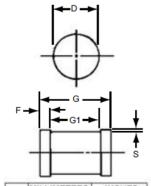


Electrical Specifications @ +25°C (unless otherwise Specified)

JEDEC TYPE#	VBR @ 100 μA	VRWM	10	Vf1 IF = 10 mA	Vf2 IF = 50 mA	Trr ¹	IR1 @ 20 Vdc	IR2 @ 75 Vdc	IR3 @ 20 Vdc T _A =150°C	IR4 @ 75 Vdc T _A =150°C	Capacitance @ 0 V	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

^{1.} Note1: IF = IR = 10 mA. RL = 100 ohms.

Outline Drawing



	MILLIM	ETERS	INCHES		
DIM	MIN	MAX	MIN	MAX	
D	1.60	1.70	0.063	0.067	
F	0.41	0.55	0.016	0.022	
G	3.30	3.70	.130	.146	
G1	2.54	REF.	.100 REF.		
S	0.03	MIN.	.001 MIN.		

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_{A IX}): 25 °C/W maximum

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

MOUNTING POSITION: Any.

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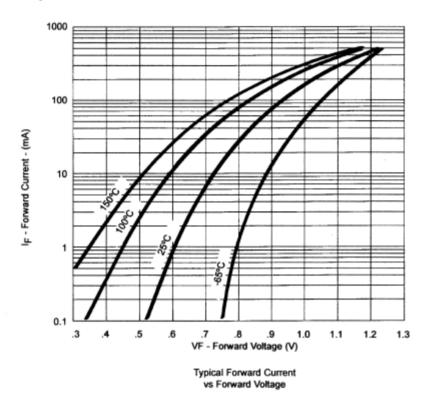
Visit www.macom.com for additional data sheets and product information.

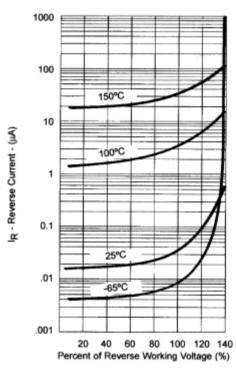


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Graphs





Typical Reverse Current vs Reverse Voltage

NOTE: All temperatures shown on graphs are junction temperatures

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