

Silicon Switching Diode Series

1N4454UR and 1N4454UR-1



Features

- Available in JAN, JANTX, and JANTXV per MIL-PRF-19500/144
- Metallurgically Bonded
- Hermetically Sealed
- Double Plug Construction



Maximum Ratings @ 25°C

Operating & Storage Temperature: -55 °C to +175 °C

Operating Current: 200mA, $T_A = +75$ °C

Derating Factor: 2.0mA dc/°C above $T_A = +75$ °C @ $L = 3/8$

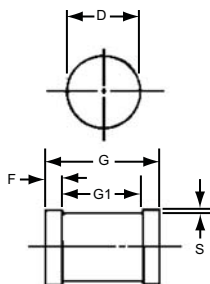
Surge Current A: 2A (pk) $t_p = 8.3$ ms, $V_{RM} = 0$

Surge Current B: 4A (pk) $t_p = 1$ us, $V_{RM} = 0$

DC Electrical Characteristics

V_{BR} @5 μ A	V_{RWM}	I_0	$V_{f1}@I_F = 10$ mA	$V_{f2}@I_F = 10$ mA $T_A = 150^\circ\text{C}$	t_{rr}	I_{R1} @ 50 V dc	I_{R2} @ 50 V $T_A = 150^\circ\text{C}$	CAPACITANCE @ 0 V
Volts	Volts (pk)	mA	V dc	V dc	n sec	μ A	μ A	pF
75	50	200	0.8	0.7	4	0.1	100	2.0

Outline Drawing



DIM	MILLIMETERS		INCHES	
	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: ($R_{\theta JEC}$): 100 °C/W maximum

THERMAL IMPEDANCE: ($Z_{\theta JX}$): 70 °C/W maximum

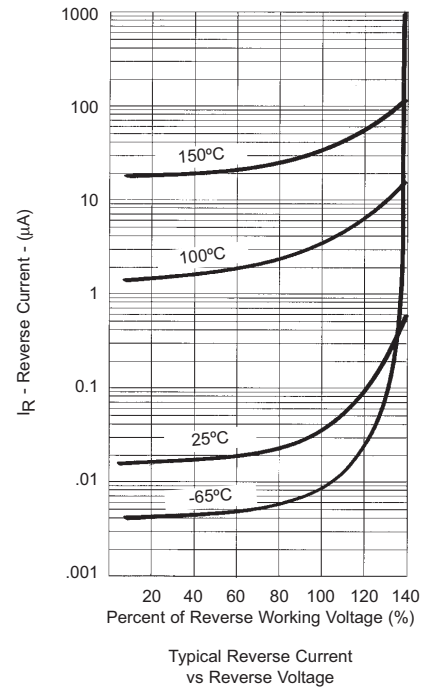
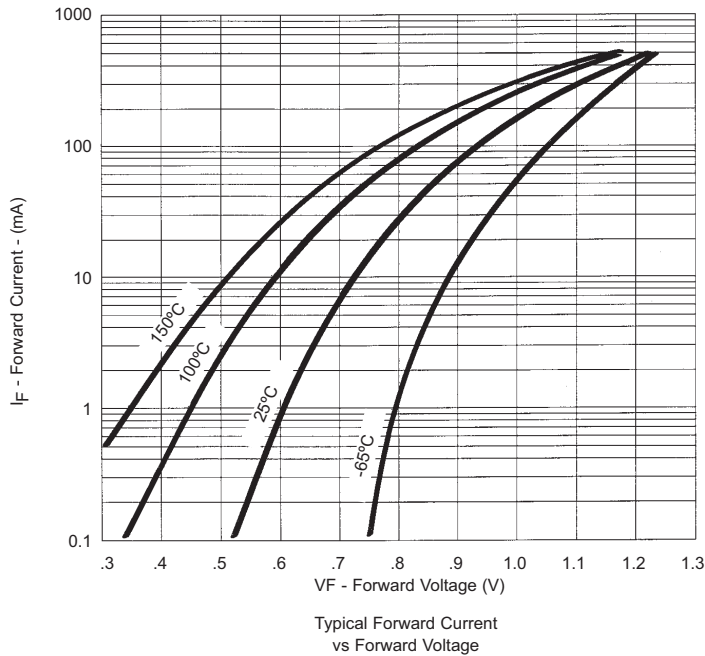
POLARITY: Cathode end is banded.



Revision Date: 12/1/2009

New Product

Graphs



NOTE: All temperatures shown on graphs are junction temperatures.

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