

# 1N4454UR & 1N4454UR-1



## Silicon Switching Diode

Rev. V1

### Features

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



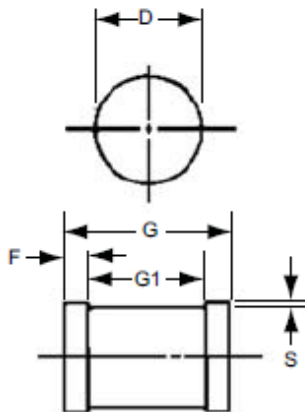
### Maximum Ratings

Operating & Storage Temperature:  $-55^{\circ}\text{C}$  to  $+175^{\circ}\text{C}$   
 Operating Current: 200 mA @  $T_A = +75^{\circ}\text{C}$   
 Derating: 2 mA DC/ $^{\circ}\text{C}$  above  $T_L = +75^{\circ}\text{C}$  @  $L = 3/8''$   
 Surge Current A: 2 A (pk)  $t_P = 8.3$  ms,  $V_{RM} = 0$   
 Surge Current B: 4 A (pk)  $t_P = 1$   $\mu\text{s}$ ,  $V_{RM} = 0$

### Electrical Specifications @ $+25^{\circ}\text{C}$ (unless otherwise Specified)

$V_{BR}$ @ 5 $\mu\text{A}$	$V_{RWM}$	$I_0$	$V_{F1}$ @ $I_F = 10$ 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	$\mu\text{A}$	$\mu\text{A}$	pF
75	50	200	0.8	0.7	4	0.1	100	2

### Outline



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  $^{\circ}\text{C}/\text{W}$  maximum

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

POLARITY: Cathode end is banded.

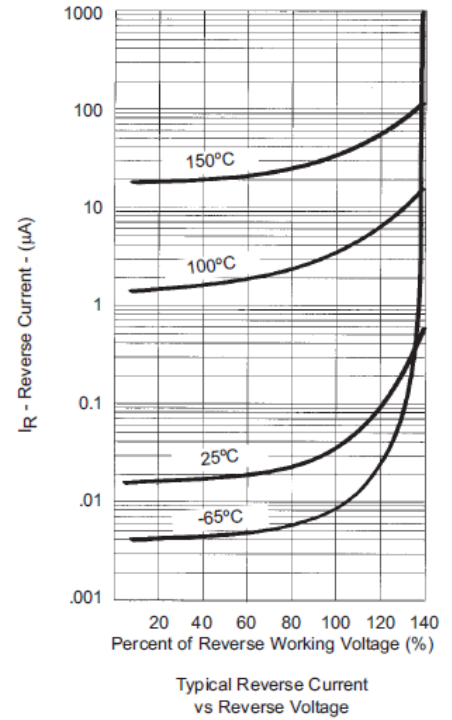
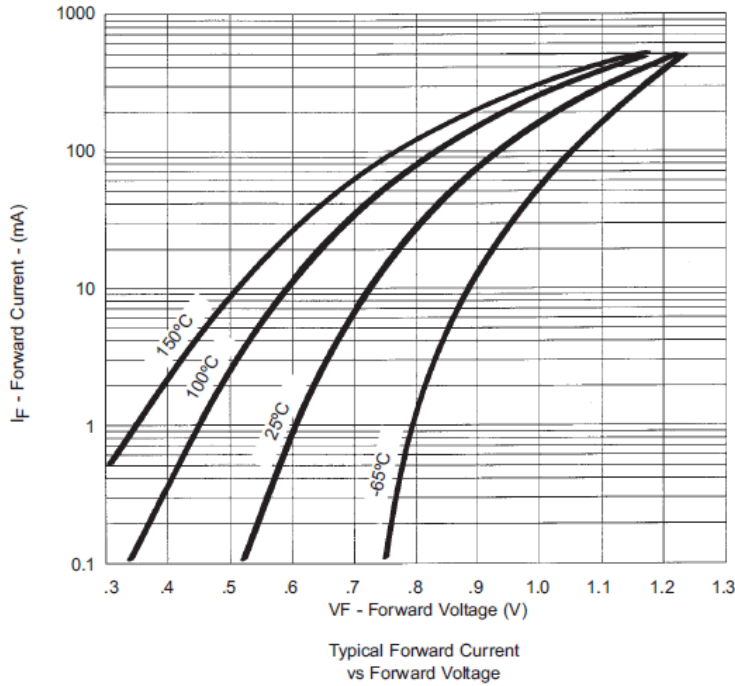
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### Graphs



NOTE: All temperatures shown on graphs are junction temperatures.

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