1N5550C THRU 1N5554C

200V-1000V Axial Leaded Standard Recovery Rectifier Diode

HIGH-RELIABILITY PRODUCTS

Features

- V_R = 200V to 1000V
- I_R = 1.0μA
- t_{rr} = 2μs
- V_F < 1.3V at I_F =9A

Quick Reference Data

- Low reverse leakage current
- Hermetically sealed
- Good thermal shock resistance
- Low forward voltage drop

Absolute Maximum Rating (Electrical specifications at T=25°C unless otherwise specified)

Parameter	Symbol	1N5550C	1N5551C	1N5552C	1N5553C	1N5554C	Units
Maximum Recurrent Peak Reverse Voltage	V_{RRM}	200	400	600	800	1000	V
Maximum DC blocking Voltage	Vdc	200	400	600	800	1000	V
Maximum Average Forward Rectified Current 3/8" lead length at Ta=55°C	$I_{F(av)}$	3.0	3.0	3.0	4.0	4.0	A
Peak Forward Surge Current 8.3ms single half sine wave superimposed on rated load	I_{FSM}	100	100	100	120	120	A
Maximum Instantaneous Forward Voltage at 9.0A	V_F	1.2	1.2	1.2	1.3	1.3	V
Maximum DC Reverse Current T_A=25°C At rated DC blocking voltage T_A=150°C	I_R	1.0 100					μA
Typical Reverse Recovery Time(1)	t_{rr}	2.0					μs
Typical Junction Capacitance(2)	C_J	40					pF
Typical Thermal Resistance(3)	$R_{\Theta JA}$	20					°C/W
Storage and Operating Junction Temperature	T_{STG}, T_J	-65 to +175					°C

Notes:
(1): Reverse recovery Condition I_F=0.5A, I_R=1.0A, I_{RR}=0.25A
(2): Measured at 1.0Mhz and applied reverse voltage of 4.0Vdc
(3): Thermal Resistance from Junction to Ambient at 3/8" lead length

Outline Drawing

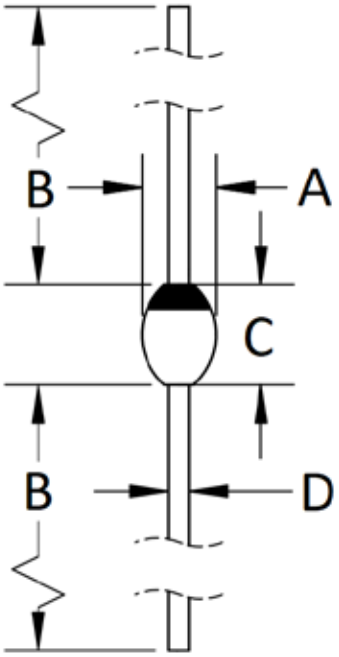

Table 1: Package Dimensions

	Dimensions			
	Inches		Millimeters	
	Min	Max	Min	Max
A	-	0.178	-	4.50
B	1.014	-	26.0	-
C	0.165	0.189	4.20	4.80
D	-	0.043	-	1.10

Ordering Information

Part Number	Packaging
1N555xC.TR	Tape and Reel

Notes:
(1): Where x can be 0 to 4.

Marking Information

Component will only have a cathode band identifier.
The full part number will be on the box label.