

HIGH-RELIABILITY PRODUCTS**Features**

$V_R = 1000V$
 $I_R = 1.0\mu A$
 $t_{rr} = 3\mu s$
 $V_F = 1.1V$ at $I_F = 3A$

Quick Reference Data

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

Absolute Maximum Ratings

Electrical specifications @ $T_A = 25^\circ C$ unless otherwise specified.

Parameter	Symbol	1N5554C	Units
Maximum Reccurent Peak Reverse Voltage	V_{RRM}	1100	V
Maximum RMS Voltage	V_{RMS}	770	V
Maximum DC blocking Voltage	Vdc	1100	V
Maximum Average Forward Rectified Current 3/8"lead length at $T_A = 70^\circ C$	$I_{F(av)}$	3.0	A
Peak Forward Surge Current 8.3ms single Half sinewave superimposed on rated load	I_{FSM}	90	A
Maximum Instantaneous Forward Voltage at 2.0A	V_F	1.1	V
Maximum DC Reverse Current $T_A = 25^\circ C$ at rated DC blocking voltage $T_A = 150^\circ C$	I_R	1.0 100	μA
Maximum Reverse Recovery Time ⁽¹⁾	t_{rr}	3.0	μs
Typical Junction Capacitance ⁽²⁾	C_J	40	pF
Typical Thermal Resistance ⁽³⁾	$R_{\theta JA}$	20	$^\circ C/W$
Storage and Operating Juntion Temperature	T_{STG}, T_J	-65 to +175	$^\circ C$
Note: 1. Reverse Recovery Condition $I_F = 0.5A$, $I_R = 1.0A$, $I_{RR} = 0.25A$ 2. Measured at 1.0 MHz and applied reverse voltage of 4.0Vdc 3. Thermal Resistance from Junction to Ambient at 3/8"lead length.			

Rating and Characteristic Curves

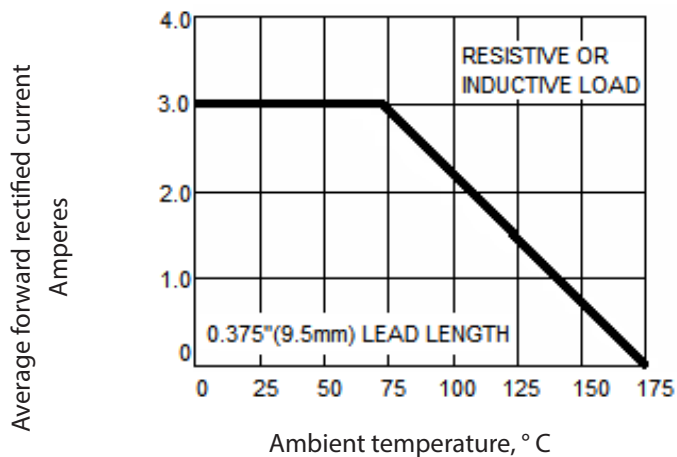


Figure 1. Forward current derating curve

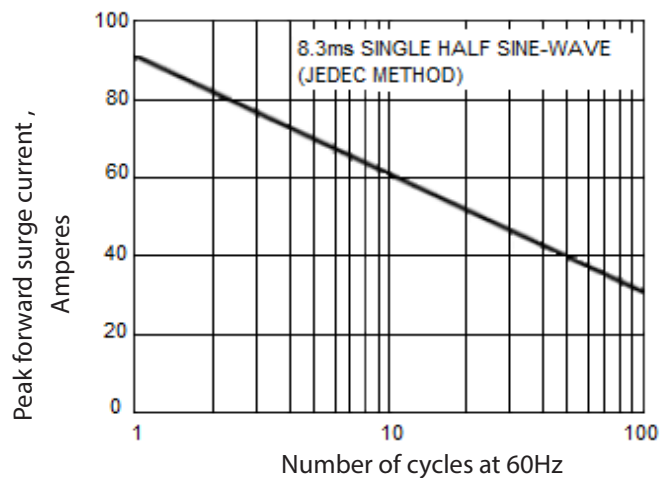


Figure 2. Maximum non-repetitive peak forward surge current

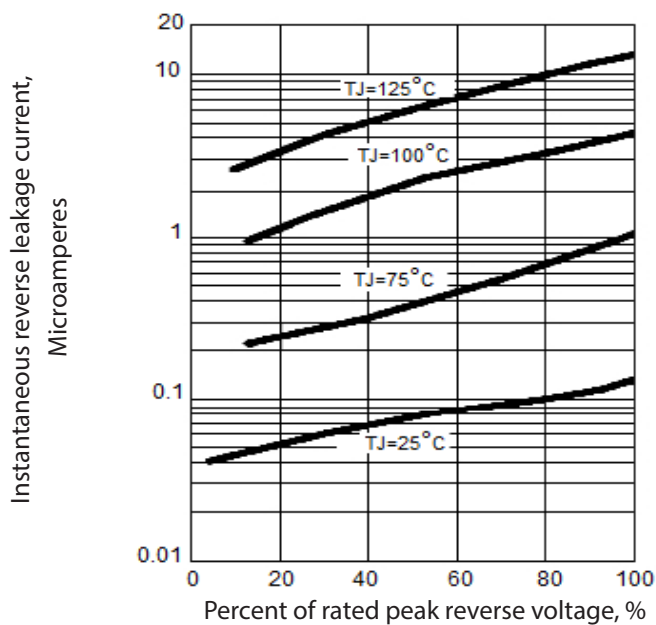


Figure 3. Typical reverse characteristics

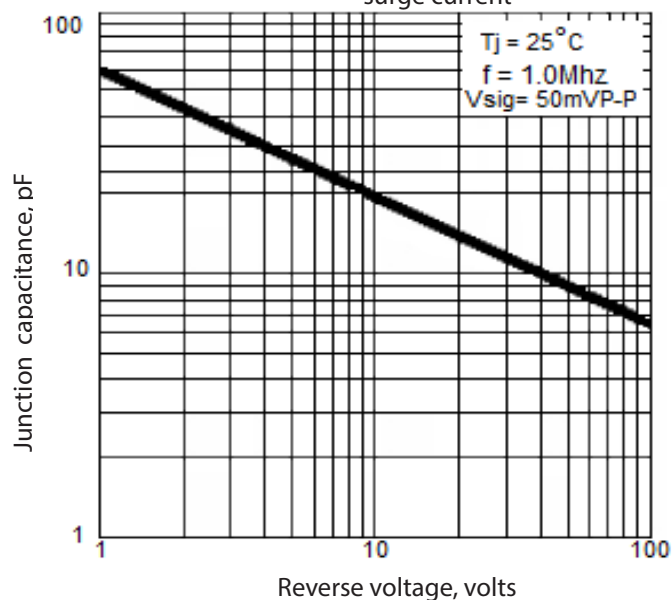


Figure 4. Typical junction capacitance

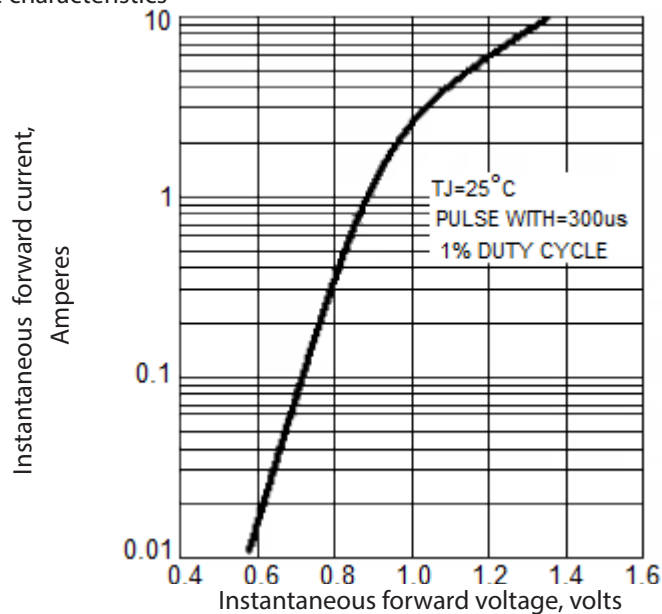


Figure 5. Typical instantaneous forward characteristics

Ordering Information

Part Number	Packaging ⁽¹⁾
1N5554C	Bulk
1N5554C.TR	Tape and reel

NOTE:

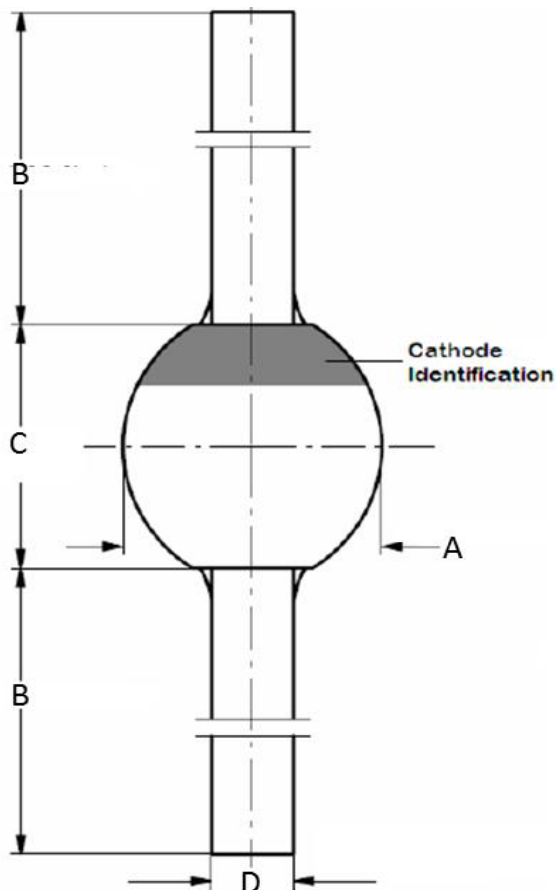
(1)Please consult factory for quantities

Marking

Component will only have a cathode band identifier.

The full part number will be on the box label.

Outline Drawing



Dimension	Dimensions			
	Inches		Millimeters	
	Min	Max	Min	Max
A	-	0.178	-	4.50
B	1.014	-	26.00	-
C	0.165	0.189	4.20	4.80
D	-	0.043	-	1.10



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