1N5614C THRU 1N5622C
200V-1000V Axial Leaded
Fast Avalanche Rectifier Diode

HIGH-RELIABILITY PRODUCTS

Features

V_R = 200V to 1000V
I_R = 0.5µA
Trr = 3.0µs
V_F = 1.2V at I_F = 1A

Quick Reference Data

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

Absolute Maximum Ratings

Electrical specifications @ T_A = 25°C unless otherwise specified.

Parameter		1N5614C	1N5616C	1N5618C	1N5620C	1N5622C	Units
Maximum Reccurrent Peak Reverse Voltage	V_{RRM}	200	400	600	800	1000	V
Maximum DC blocking Voltage	V_{DC}	200	400	600	800	1000	V
Maximum Average Forward Rectified Current 0.375" (9.5mm) lead length at T_A=55°C	$I_{F(av)}$	1.0					A
Peak Forward Surge Current 8.3ms single Half sinewave superimposed on rated load	I_{FSM}	50.0					A
Maximum Instantaneous Forward Voltage at 1.0A	V_F	1.2					V
Maximum DC Reverse Current T_A =25°C at rated DC blocking voltage T_A =100°C	I_R	0.5 25					µA
Maximum Reverse Recovery Time(1)	Trr	3.0					µs
Typical Junction Capacitance(2)	C	45.0					pF
Maximum Reverse Breakdowm Voltage I_R=50 µA	V_{BR}	220	440	660	880	1100	V
Typical Thermal Resistance(3)	$R_{\theta JL}$	55.0					°C/W
Storage and Operating Juntion Temperature	T_{STG}, T_J	-65 to +175					°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 12Vdc
3. Thermal Resistance from Junction to Ambient at 3/8"lead length.

Rating and Characteristic Curves

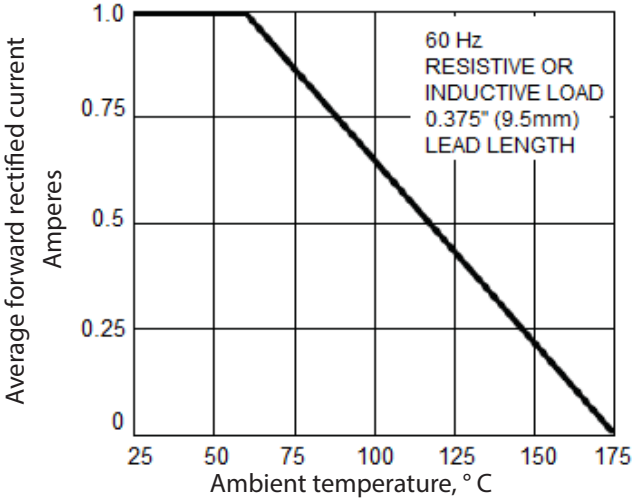


Figure 1. Forward current derating curve

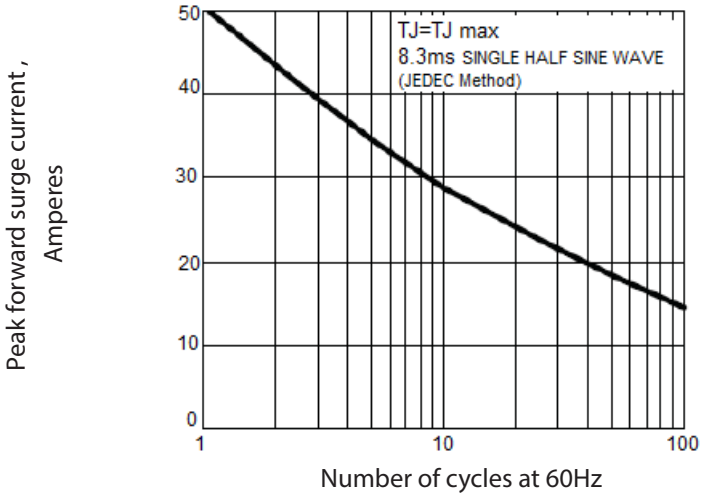


Figure 2. Maximum non-repetitive peak forward surge current

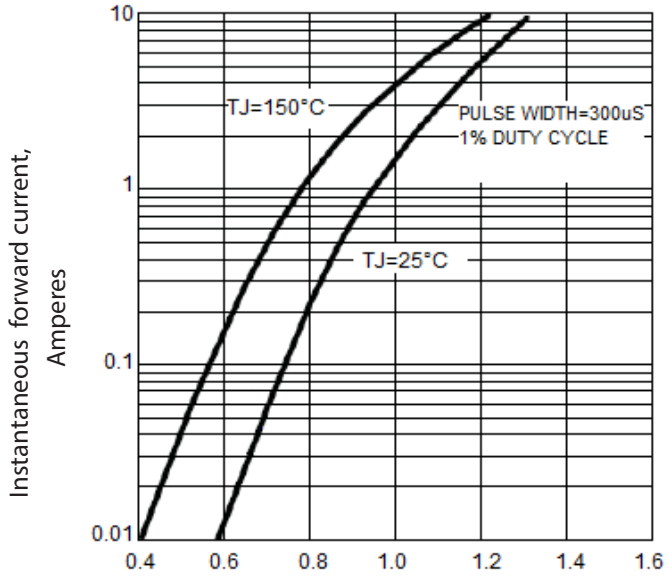


Figure 3. Typical instantaneous forward characteristics

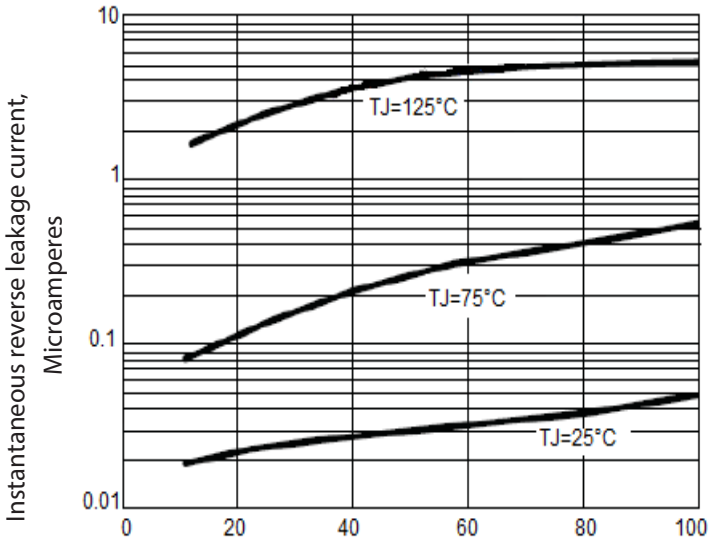


Figure 4. Typical reverse characteristics

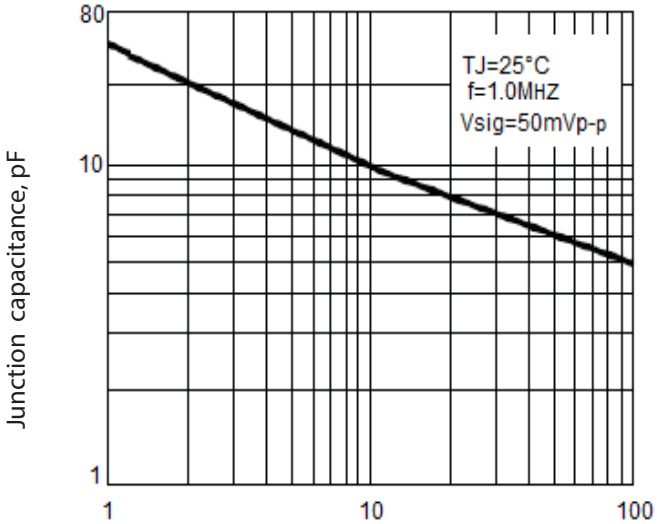


Figure 5. Typical junction capacitance

Ordering Information

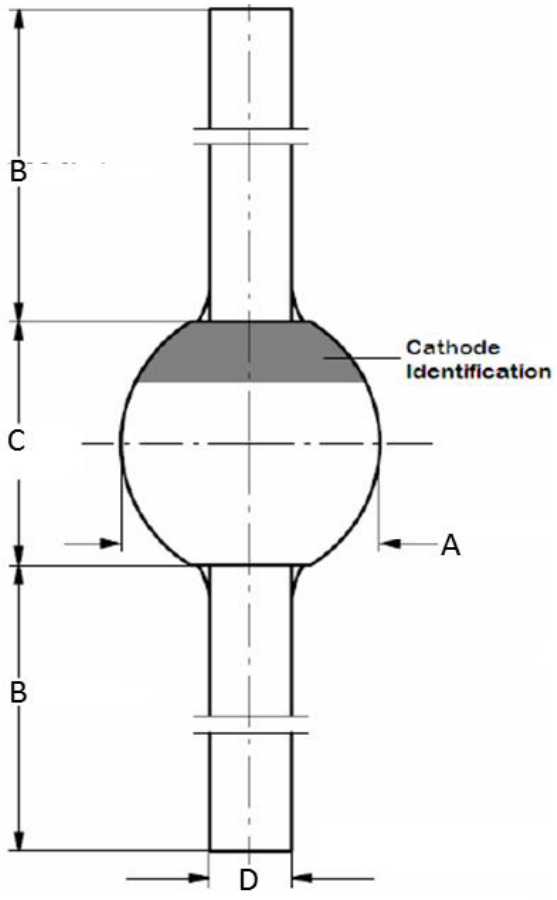
Part Number	Packaging[1]
1N5614C Thru 1N5622C	Bulk
1N5614C.TR Thru 1N5622C.TR	Tape and reel

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	-	0.140	-	3.60
B	1.014	-	26.00	-
C	-	0.156	-	4.00
D	-	0.032	-	0.82

Contact Information

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