

**Features**
 $V_R$  = 200V to 1000V

 $I_R$  = 0.5 $\mu$ A

 $T_{rr}$  = 3.0 $\mu$ s

 $V_F$  = 1.2V at  $I_F$  = 1A

**Quick Reference Data**

- ◆ Low reverse leakage current
- ◆ Hermetically sealed
- ◆ Good thermal shock resistance
- ◆ Fast  $T_{rr}$
- ◆ Low forward voltage drop

**Absolute Maximum Ratings**

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

Parameter		1N5614C	1N5616C	1N5618C	1N5620C	1N5622C	Units
Maximum Recurrent 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					$\mu$ A
Maximum Reverse Recovery Time <sup>(1)</sup>	$T_{rr}$	3.0					$\mu$ s
Typical Junction Capacitance <sup>(2)</sup>	C	45.0					pF
Maximum Reverse Breakdown Voltage $I_R$ =50 $\mu$ A	$V_{BR}$	220	440	660	880	1100	V
Typical Thermal Resistance <sup>(3)</sup>	$R_{\theta JL}$	55.0					$^{\circ}$ C/W
Storage and Operating Junction Temperature	$T_{STG},$ $T_J$	-65 to +175					$^{\circ}$ C
<b>Note:</b> 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

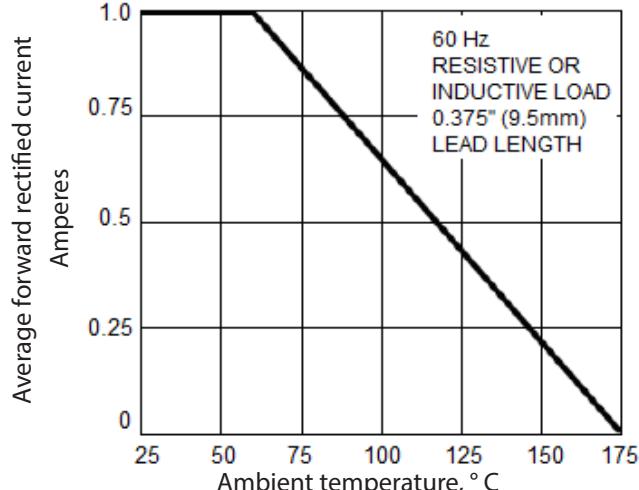


Figure 1. Forward current derating curve

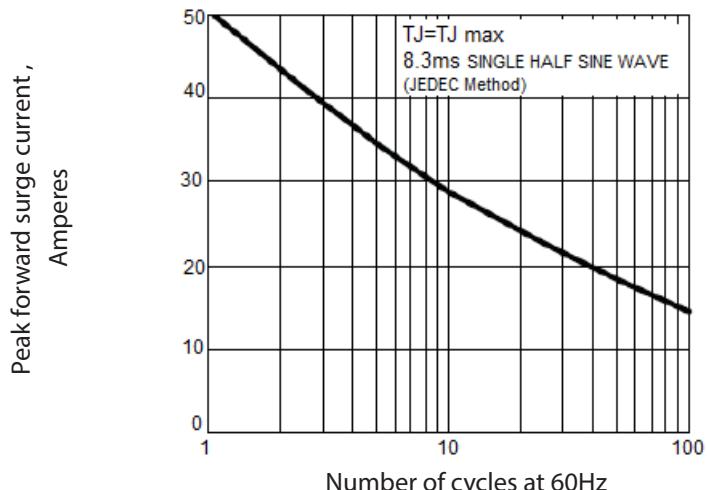


Figure 2. Maximum non-repetitive peak forward surge current

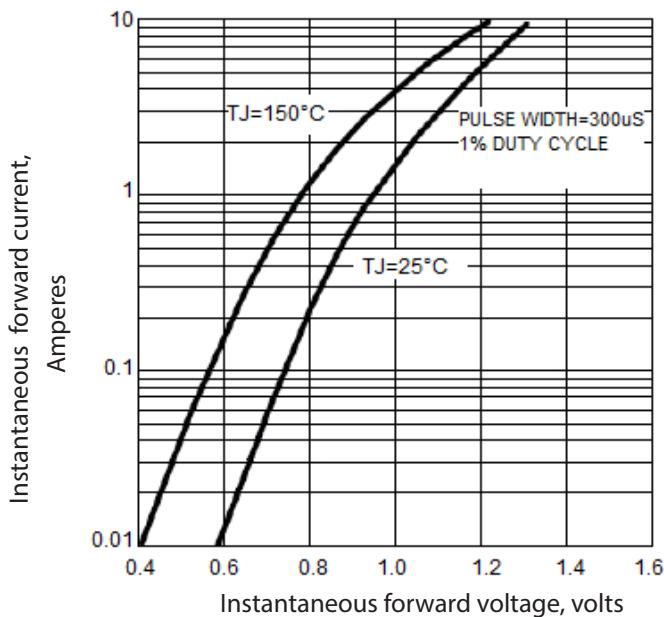


Figure 3. Typical instantaneous forward characteristics

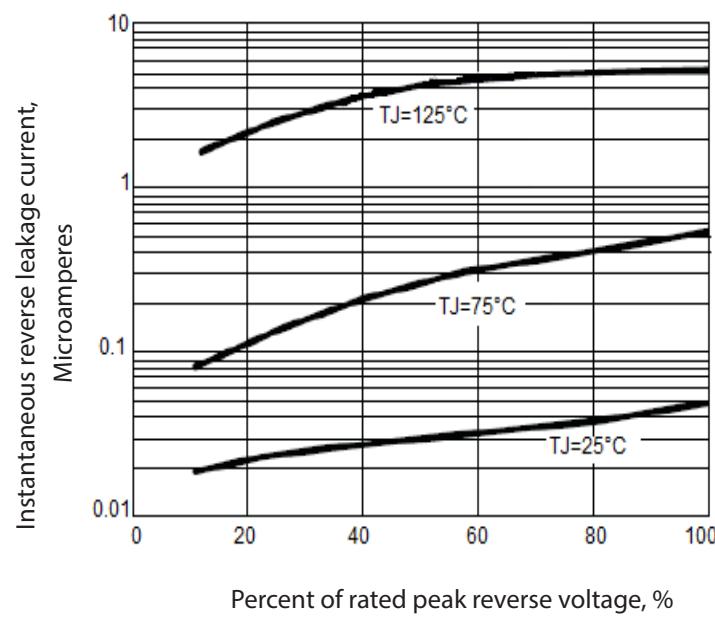


Figure 4. Typical reverse characteristics

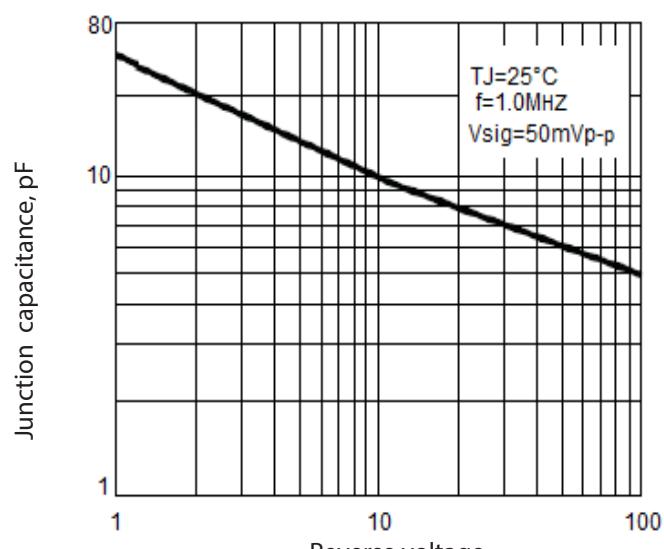


Figure 5. Typical junction capacitance

## Ordering Information

Part Number	Packaging <sup>(1)</sup>
1N5614C Thru 1N5622C	Bulk
1N5614C.TR Thru 1N5622C.TR	Tape and reel

NOTE:

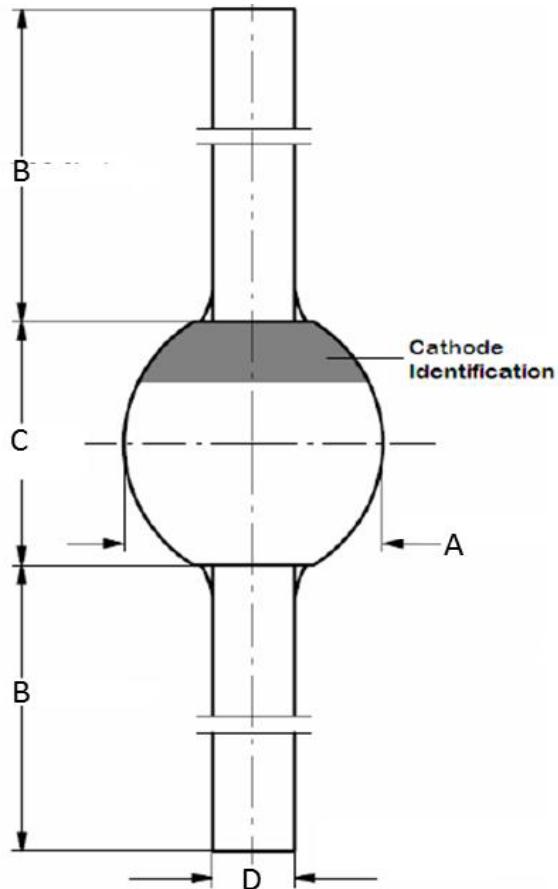
(1)Please consult factory for quantities

## 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



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