

1N5622 THRU 1N5623

SINTERED GLASS JUNCTION FAST AVALANCHE RECTIFIER

VOLTAGE: 800V to 1000V

CURRENT: 1.0A



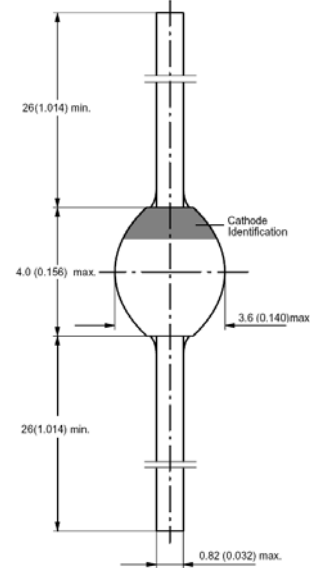
FEATURE

Glass passivated
High maximum operating temperature
Low leakage current
Excellent stability
Guaranteed avalanche energy absorption capability

MECHANICAL DATA

Case: SOD-57 sintered glass case
Terminal: Plated axial leads solderable per J-STD-002
Polarity: color band denotes cathode end
Mounting position: any

SOD-57



Dimensions in millimeters

MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

(single-phase, half-wave, 60HZ, resistive or inductive load rating at 25°C, unless otherwise stated)

	SYMBOL	1N5622	1N5623	units
Maximum Recurrent Peak Reverse Voltage	V_{RRM}	800	1000	V
Maximum RMS Voltage	V_{RMS}	560	700	V
Maximum DC blocking Voltage	V_{DC}	800	1000	V
Reverse Breakdown Voltage at $I_R = 0.1mA$	$V_{(BR)R}$	900min	1100min	V
Maximum Average Forward Rectified Current at $T_a = 55^\circ C$	$I_{F(AV)}$	1.0		A
Peak Forward Surge Current at 10ms single half sine-wave superimposed on rated load	I_{FSM}	35		A
Maximum Forward Voltage at rated Forward Current and 25°C $I_F = 3.0A$	V_F	1.3		V
Maximum DC Reverse Current $T_j = 25^\circ C$ at rated DC blocking voltage $T_j = 165^\circ C$	I_R	5.0 150		μA
Maximum Reverse Recovery Time (Note 1)	T_{rr}	300		nS
Non Repetitive Reverse Avalanche Energy at $L=120mH$	E_R	10		mJ
Typical Junction Capacitance (Note 2)	C_j	10		pF
Typical Thermal Resistance (Note 3)	$R_{th(ja)}$	55		$^\circ C/W$
Storage and Operating Junction Temperature	T_{stg}, T_j	-65 to +175		$^\circ C$

Note:

- Reverse Recovery Condition $I_F = 0.5A$, $I_R = 1.0A$, $I_{RR} = 0.25A$
- Measures at 1.0MHz and applied reverse voltage of 4.0 Volts
- Thermal resistance from junction to ambient at 0.375"(9.5mm) lead length, P.C.B. mounted

RATINGS AND CHARACTERISTIC CURVES 1N5622 THRU 1N5623

FIG. 1 - FORWARD CURRENT DERATING CURVE

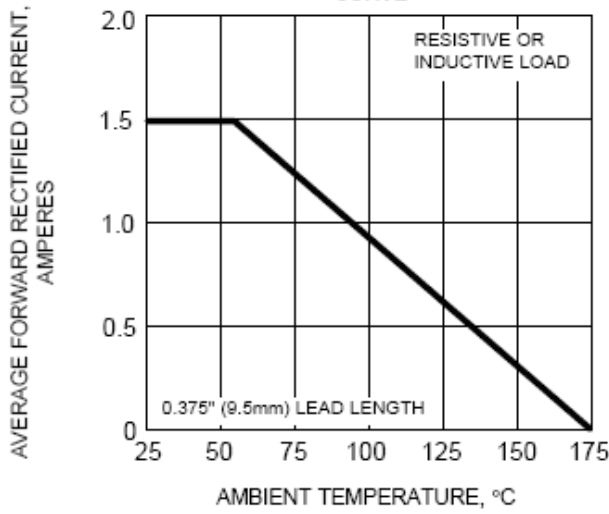


FIG. 2 - MAXIMUM NON-REPETITIVE PEAK FORWARD SURGE CURRENT

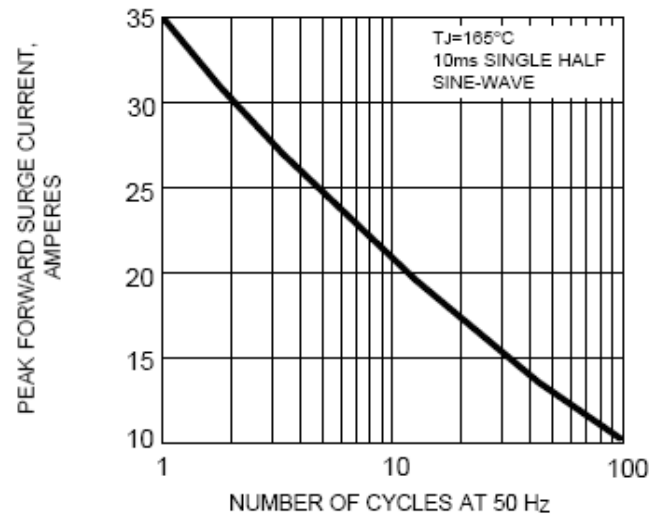


FIG. 3 - TYPICAL INSTANTANEOUS FORWARD CHARACTERISTICS

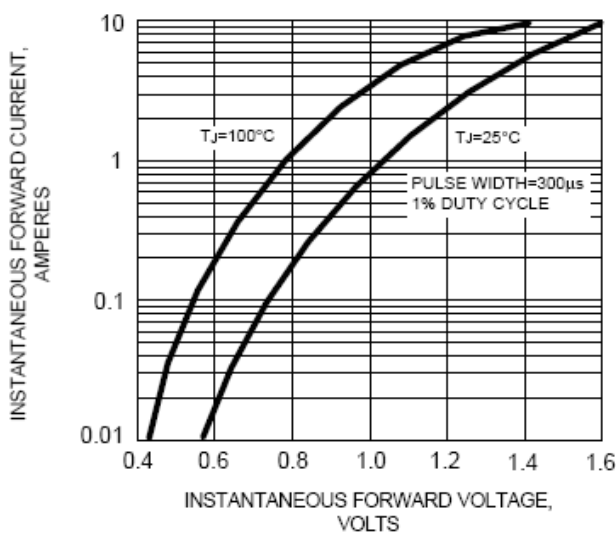


FIG. 4 - TYPICAL REVERSE CHARACTERISTICS

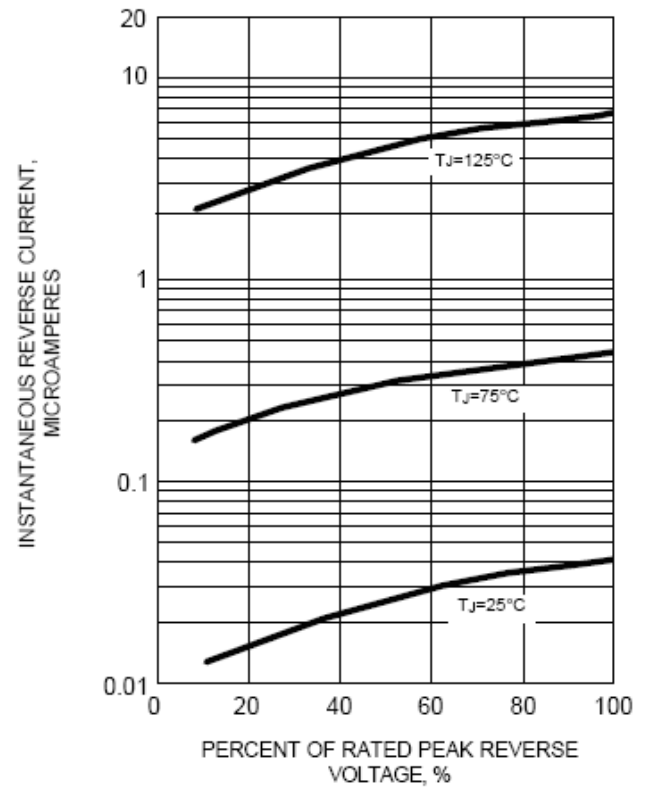


FIG. 5 - TYPICAL JUNCTION CAPACITANCE

