1N4249S

SINTERED GLASS JUNCTION AVALANCHE RECTIFIER

VOLTAGE：1000V **CURRENT: 1.0A**

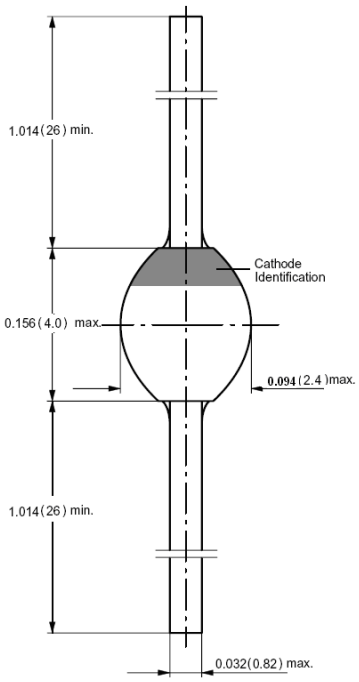
FEATURE

Glass passivated
High maximum operating temperature
Low leakage current
Excellent stability

MECHANICAL DATA

Case: SOD-57 sintered glass case
Terminal: Plated axial leads solderable per MIL-STD 202E, method 208C
Polarity: color band denotes cathode end
Mounting position: any

SOD-57-2



Dimensions in inches and (millimeters)

MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

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

	SYMBOL	1N4249S	units
Maximum Recurrent Peak Reverse Voltage	V_{RRM}	1000	V
Maximum RMS Voltage	V_{RMS}	700	V
Maximum DC blocking Voltage	V_{DC}	1000	V
Maximum Average Forward Rectified Current 0.375”（9.5mm）lead length at Ta =55°C	I_{FAV}	1.0	A
PeakForward Surge Current at t=8.3ms half sinewave	I_{FSM}	30	A
Maximum Forward Voltage at rated Forward Current	V_F	1.2	V
Maximum DC Reverse Current Ta =25°C at rated DC blocking voltage Ta =125°C	I_R	1.0 25	μA
Typical junction capacitance（NOTE 1）	Cj	15	pF
Typical Thermal Resistance (Note 2)	$R_{th(ja)}$	55	°C / W
Storage and Operating Junction Temperature	Tstg, Tj	-65 to +175	°C

Note:
1. Measured at 1.0 MHz and applied reverse voltage of 4.0 Volts
2. Thermal resistance from junction to ambient at 0.375”（9.5mm）lead length, P.C.B. mounted

RATINGS AND CHARACTERISTIC CURVES 1N4249S

FIG. 1 - FORWARD CURRENT DERATING CURVE

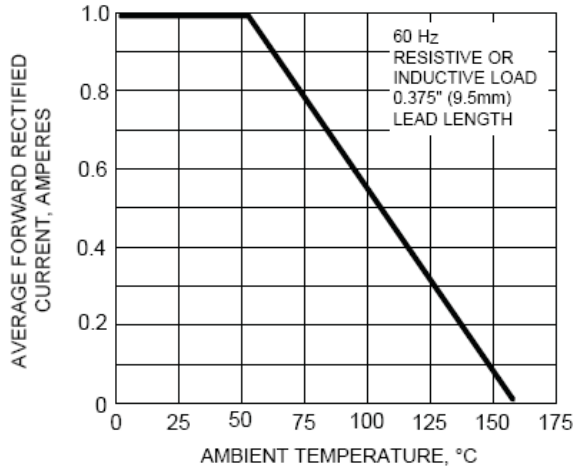


FIG. 2 - MAXIMUM NON-REPETITIVE PEAK FORWARD SURGE CURRENT

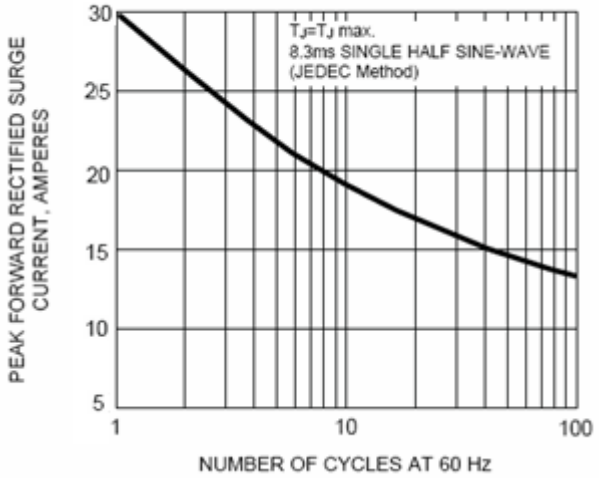


FIG. 3 - TYPICAL INSTANTANEOUS FORWARD CHARACTERISTICS

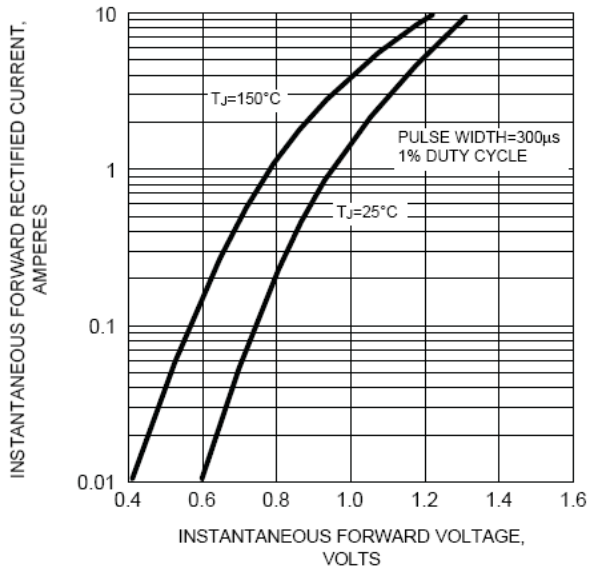


FIG. 4 - TYPICAL REVERSE CHARACTERISTICS

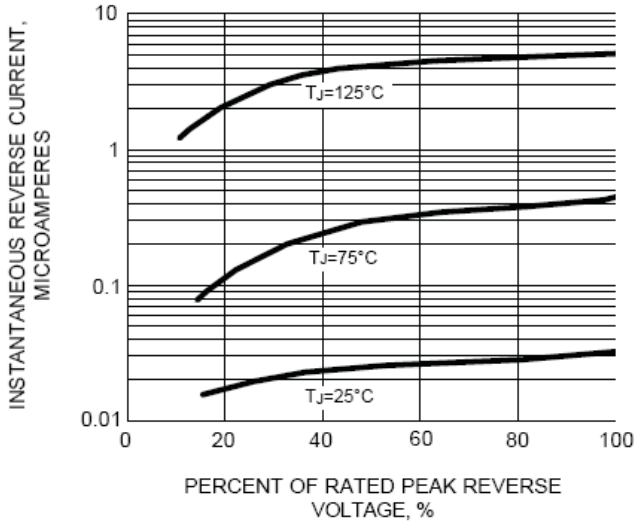


FIG. 5 - TYPICAL JUNCTION CAPACITANCE