New Jersey Semi-Conductor Products, Inc.

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1N6527 0.25A 10kV 70nS

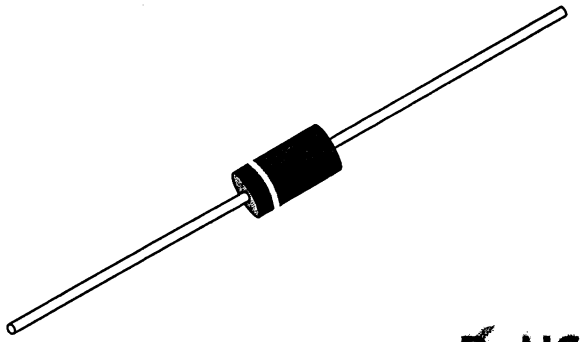
Introduce:

High voltage silicon rectifier diodes is made of high quality glass passivated chip and high reliability epoxy resin sealing structure, and through professional testing equipment inspection qualified after to customers.

Features:

High reliability design.
GPP chip.
High frequency, super fast recovery.
Conform to RoHS and SGS.
Epoxy resin molded in vacuumHave anticorrosion in the surface.

Reference Shape:



RoHS COMPLIANT

Applications:

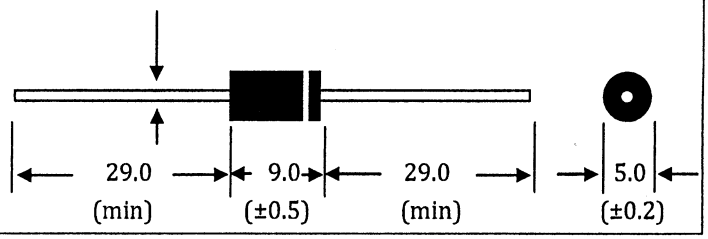
High voltage multiplier circuit.
X-ray power supply.
General purpose high voltage rectifier.
Other.

Mechanical Data:

Case: epoxy resin molding.
Terminal: welding axis.
Net weight: 2.1 grams (approx).

Unit: (mm)

DO-590
Lead Diameter 1.28±0.03



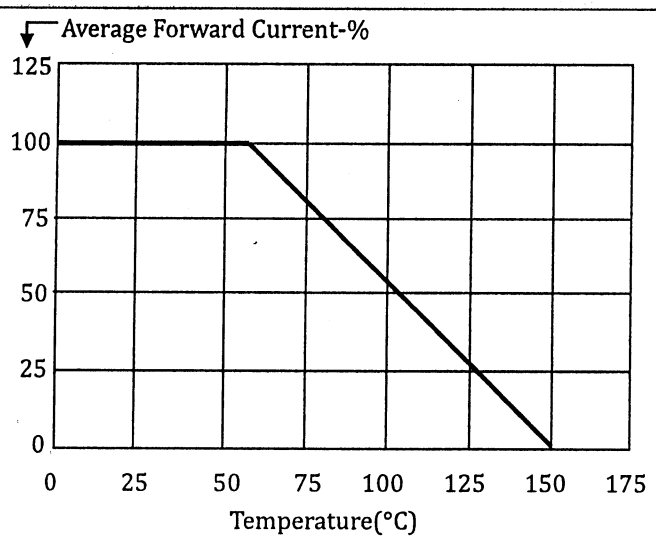
Maximum Ratings And Characteristics: (Absolute Maximum Ratings)

Items	Symbols	Condition	Data Value	Units
Repetitive Peak Renerse Voltage	V_{RRM}	T_A=25°C	10	kV
Non-Repetitive Peak Renerse Voltage	V_{RSM}	T_A=25°C	--	kV
Average Forward Current Maximum	I_{FAVM}	T_A=55°C	0.25	A
		T_L=100°C (L=0.375")	0.13	A
Non-Repetitive Forward Surge Current	I_{FSM}	T_A=25°C; 60Hz Half-Sine Wave; 8.3mS	15	A
Junction Temperature	T_J		150	°C
Allowable Operation Case Temperature	Tc		-55~+150	°C
Storage Temperature	T_{STG}		-55~+175	°C

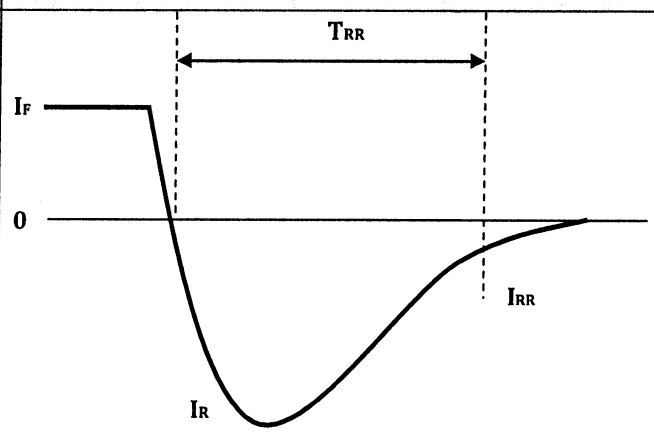
Electrical Characteristics: T_A=25°C (Unless Otherwise Specified)

Items	Symbols	Condition	Data value	Units
Maximum Forward Voltage Drop	V_{FM}	at 25°C; at I_{FAVM}	12	V
Maximum Reverse Current	I_{R1}	at 25°C; at V_{RRM}	0.5	uA
	I_{R2}	at 100°C; at V_{RRM}	20	uA
Maximum Reverse Recovery Time	T_{RR}	at 25°C; I_F=0.5I_R; I_R=I_{FAVM}; I_{RR}=0.25I_R	70	nS
Junction Capacitance	C_J	at 25°C; V_R=50VDC; f=1KHz	2.5	pF

Forward Current Derating Curve



Reverse Recovery Measurement Waveform



Typical data capture points: I_F =0.5I_R , I_R,I_{RR} =0.25I_R

I_R is typically the rated average forward current maximum (I_{FAVM}) of the D.U.T

Non-Repetitive Surge Current