New Jersey Semi-Conductor Products, Inc.

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## 1N6838

## Ultra-Fast Recovery High Voltage Silicon Rectifying Diode 1.5A 2.0kV 50ns

NJS high voltage silicon rectifier diode is made of high quality glass passivated chip and high reliability epoxy resin sealing structure, and through professional testing equipment inspection qualified.

Features:High reliability designHigh frequency, super fast recoveryGPP ChipConform to RoHSEpoxy resin molded in vacuumHave anticorrosion in the surface.

Applications:	HVGT Name:	Unit: (mm)
High voltage multiplier circuit.	DO-590	
X-ray power supply.	Lead Diameter 1.28±0.03	· · · · ·
General purpose high voltage rectifier.		
Other.		
Mechanical Data:		
Case: epoxy resin molding.		
Terminal: welding axis.	<b>←</b> 29.0 <b>→ ●</b> 9.0	
Net weight: 2.1 grams (approx).	(min) (±0.5	) (min) (±0.2)

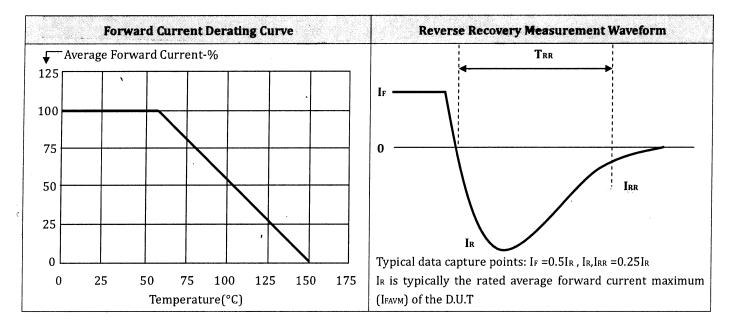
Maximum Ratings And Characteristics: (Absolute Maximum Ratings)

Items	Symbols	Condition	Data Value	Units
Repetitive Peak Renerse Voltage	Vrrm	Ta=25°C	2.0	kV
Non-Repetitive Peak Renerse Voltage	Vrsm	TA=25°C		kV
Average Forward Current Maximum	Ifavm	Ta=55°C	1.5	А
		TL=100°C (L=0.375")	1.0	А
Non-Repetitive Forward Surge Current	Ifsm	Ta=25°C; 60Hz Half-Sine Wave; 8.3mS	60	А
Junction Temperature	T)		150	°C
Allowable Operation Case Temperature	Тс		-55~+150	°C
Storage Temperature	Тятд		-55~+175	°C

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

Items	Symbols	Condition	Data value	Units
Maximum Forward Voltage Drop	Vfm	at 25°С; at Iғаvм	4.0	V
Naximum for ward forage 210F	Ir1	at 25°C; at VRRM	1.0	uA
Maximum Reverse Current	IR2	at 100°C; at VRRM	. 25	uA
Maximum Reverse Recovery Time	Trr	at 25°C; IF=0.5Ir; Ir=IFAVM; IRR=0.25Ir	50	nS
	CI	at 25°C; V <sub>R</sub> =50VDC; f=1KHz	25	pF

## **Quality Semi-Conductors**



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