

光伏4.0二极管连接器

PV 4.0 Diode Connector

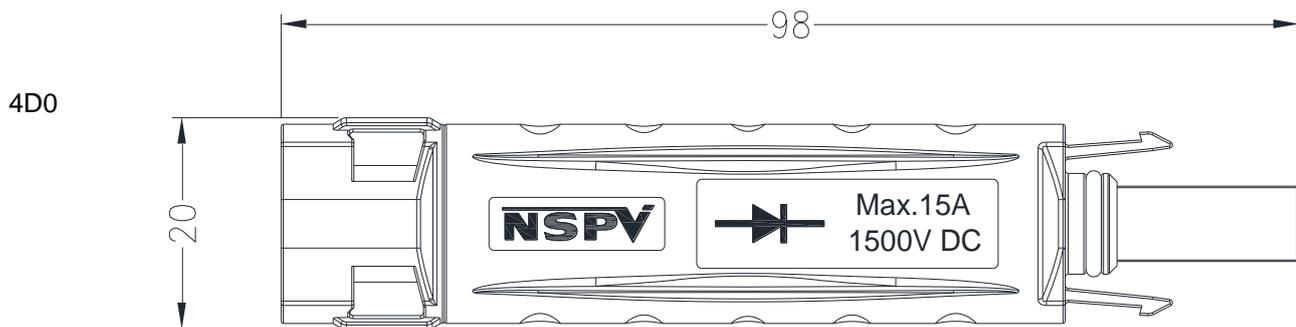
产品规格

Product Specifications

绝缘材料 Insulation material	PPE/PA	过压等级 Overvoltage category/Pollution degree	CATIII/2
额定电流 (不含二极管) Rated current (Without diode)	30A	安全等级 Safety degree	II
额定电流(含二极管) Rated current (With Diode)	15A (Diode Rated Current 25A)	阻燃等级 Flame class	UL94-V0
额定电压 Rated voltage	1500VDC	插入力/拔出力 Insertion force/Withdrawal force	≤50N / ≥50N
测试电压 Test voltage	8kV(50Hz, Imin) Without diode	环境温度范围 Ambient temperature range	-40℃...+85℃(IEC)
连接器接触电阻 Typical contact resistance	≤0.25 mΩ	温度上限 Upper limiting temperature	110℃(IEC)
金属导体材料 Contact material	铜,镀锡 Copper, Tin plated	连接方式 Connecting system	压接 Crimp connection
保护等级 Degree of protection	IP67		

图示:

Drawing:



*建议最高使用环境温度为75摄氏度，且在75-85摄氏度下使用不能超过8小时。

*Recommended that the Max ambient temperature is 75℃, and not exceed 8 hours in 75-85℃.

25A 2000V Heat Dissipation Enhanced Glass Passivated Rectifiers

FEATURES

- Glass passivated chip junction
- High current capability, Low VF
- High reliability
- High surge current capability
- Low power loss
- Compliant to RoHS Directive 2011/65/EU and in accordance to WEEE 2002/96/EC
- Halogen-free according to IEC 61249-2-21

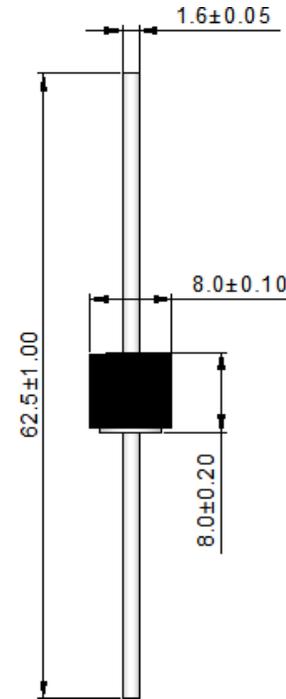
MECHANICAL DATA

Case: P600S

Molding compound, UL flammability classification rating 94V-0

Terminal: Pure tin plated leads, solderable per JESD22-B102

Meet JESD 201 class 2 whisker test



Package: P600S

MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS ($T_A=25^{\circ}\text{C}$ unless otherwise noted)			
PARAMETER	SYMBOL	P2500Y	UNIT
Maximum repetitive peak reverse voltage	V_{RRM}	2000	V
Maximum RMS voltage	V_{RMS}	1700	V
Maximum DC blocking voltage	V_{DC}	1900	V
Maximum average forward rectified current	$I_{F(AV)}$	25	A
Peak forward surge current, 10 ms single half sine-wave superimposed on rated load	I_{FSM}	650	A
Rating for fusing, $t < 10\text{ms}$	I^2t	2100	A^2s
Maximum instantaneous forward voltage (Note 1) @ 5 A	V_F	0.88	V
Maximum reverse current @ rated V_R $T_J=25^{\circ}\text{C}$	I_R	5	μA
Typical thermal resistance	$R_{\theta JL}$	0.5 (Note 2)	$^{\circ}\text{C/W}$
		3.0 (Note 3)	
Operating junction temperature range - in DC forward mode	T_J	- 50 to +175 \cong 200	$^{\circ}\text{C}$
Storage temperature range	T_{STG}	- 55 to +175	$^{\circ}\text{C}$

Note 1: Pulse test with $PW=300\mu\text{s}$, 1% duty cycle

Note 2: Thermal resistance from junction to lead/terminal at a distance 0 mm from case.

Note 3: Mount on Heat sink size of 4in x 6in x 0.25in Al-Plate

25A 2000V Heat Dissipation Enhanced Glass Passivated Rectifiers

RATINGS AND CHARACTERISTICS CURVES

($T_A=25^\circ\text{C}$ unless otherwise noted)

FIG.1 FORWARD CURRENT DERATING CURVE

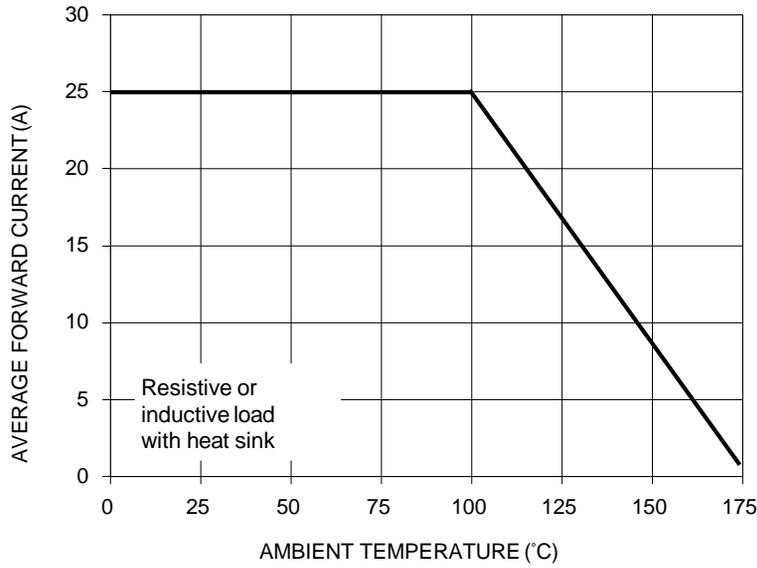


FIG. 2 MAXIMUM NON-REPETITIVE FORWARD SURGE CURRENT

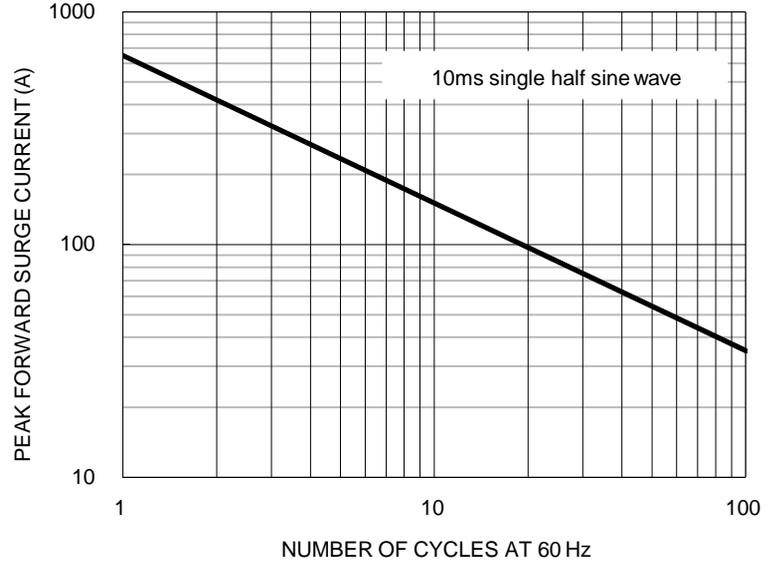


FIG. 3 TYPICAL FORWARD CHARACTERISTICS

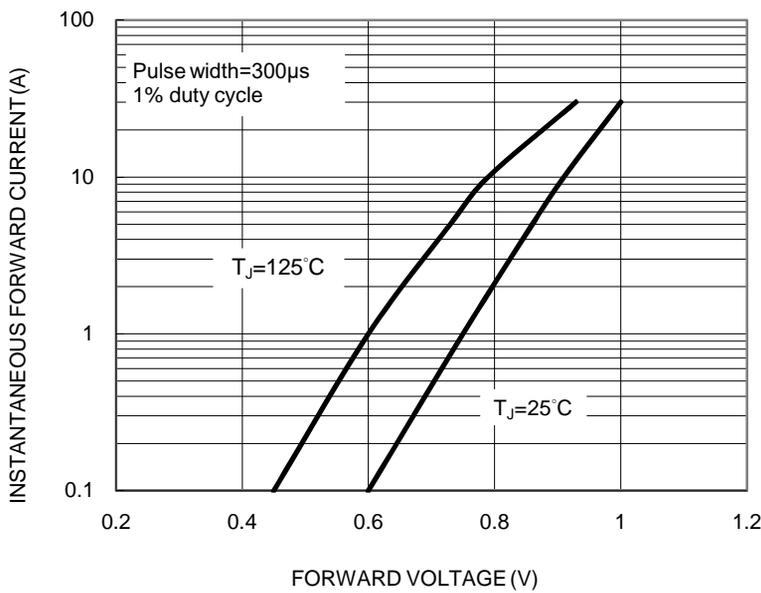


FIG. 4 TYPICAL REVERSE CHARACTERISTICS

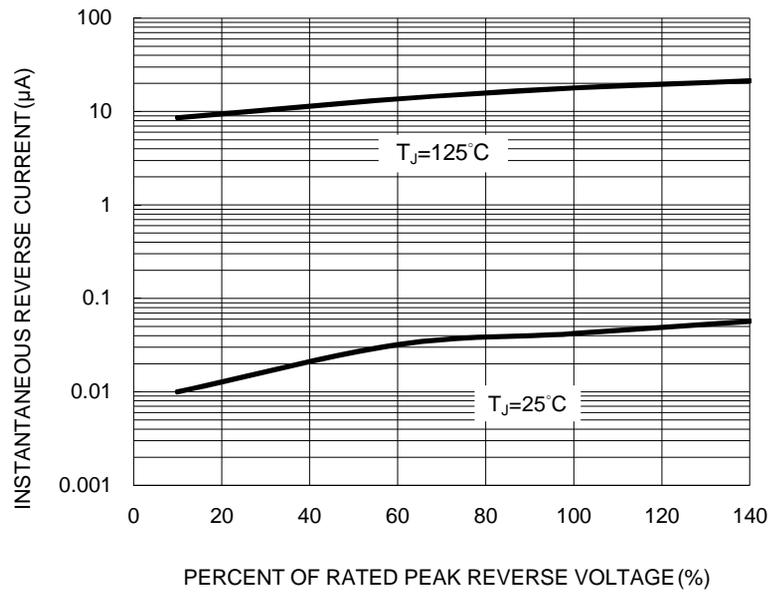
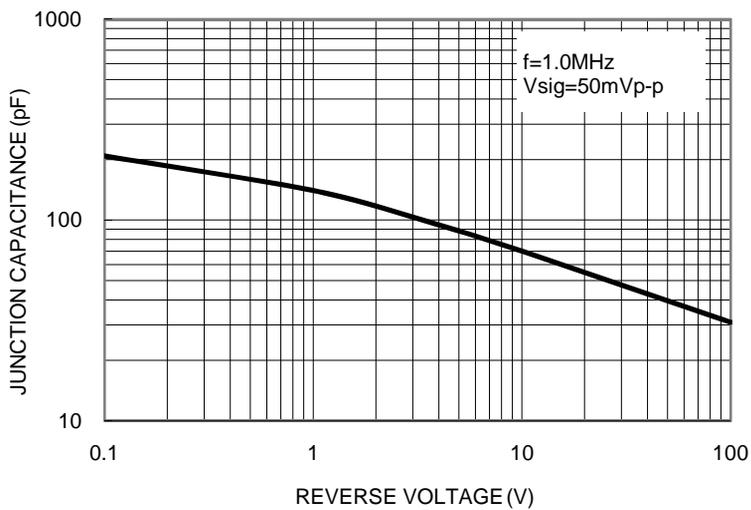


FIG. 5 TYPICAL JUNCTION CAPACITANCE



P2500Y

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