

P/N: YZPST-SR3KV

ULTRAFAST AVALANCHE RECTIFIER
VOLTAGE: 3000V CURRENT: 0. 25A

YZPST.

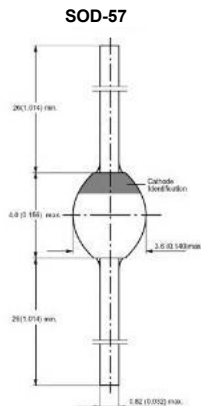
YZPST Group

FEATURE

Very low switching losses
Glass passivated
Low reverse current
High reverse voltage
Hermetically sealed package

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



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	SR3KV	units
Maximum Recurrent Peak Reverse Voltage	VRRM	3000	V
Maximum RMS Voltage	VRMS	2100	V
Maximum DC blocking Voltage	Voc	3000	V
Minimum Reverse Breakdown Voltage IR=100 μA	(VBR) R	3100	V
Average Forward Rectified Current half-sine-wave	FAV	0. 25	A
Peak Forward Surge Current 10ms half sine-wave	IFSM	15	A
Maximum Forward Voltage at 0.25A	VF	5. 0	V
Non-repetitive peak reverse avalanche energy at 1eRR=0.2A	ER	5. 0	
Maximum DC Reverse Current Tj=25°C at rated DC blocking voltage Tj=125°C	IR	10. 0 100. 0	μA
Maximum Reverse Recovery Time (Note1)	Trr	250	nS
Typical Thermal Resistance (Note 2)	Rth (ja) Rth (jc)	45 25	°C/W
Typical Junction Capacitance (Note 3)	Cj	10. 5	pF
Storage and Operating Junction Temperature	Tstg, Tj	-55to+175	°C

Note:

1. Reverse Recovery Condition If=0. 5A, Ir=1. 0A, Irr =0. 25A
2. Lead length l=10mm, TL=constant
3. Measured at 1. 0 MHz and applied Vr=4. 0V

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