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XIN SEMICONDUCTOR  
ISO9002

HQ MARKING

捷多邦, 专业PCB打样工厂, 24小时加急出货

# 1SS101 THUR 1SS301

SUPER HIGH SPEED SWITCHING DIODE  
SPECIAL DESIGN FOR PROTECTING SOLAR BATTERY

## FEATURES

- For general purpose applications
- These diodes features very low turn-on voltage and fastswitching. These devices are protected by a Pn junction guard ring against excessive voltage, such as electrostatic discharges.

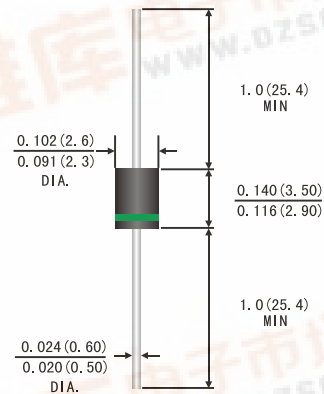
## APPLICATIONS

High speed switch circuit  
IC polarity protection  
Solar battery polarity protection  
Small signal rectifier

## MECHANICAL DATA

- *Case:* JEDEC R-1 molded plastic body
- *Polarity:* color band denotes cathode end
- *Mounting Position:* Any
- *Weight:* 0.0063ounce, 0.18 gram

### R-1



Dimensions in inches and (millimeters)

## MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

(Ratings at 25°C ambient temperature unless otherwise specified ,Single phase ,half wave ,resistive or inductive load. For capacitive load,derate by 20%.)

	<i>Symbols</i>	1SS101	1SS201	1SS301	<i>Units</i>
Maximum repetitive peak reverse voltage	V <sub>RRM</sub>	20	30	40	Volts
Maximum RMS voltage	V <sub>RMS</sub>	14	21	28	Volts
Maximum DC blocking voltage	V <sub>DC</sub>	20	30	40	Volts
Maximum non-repetitive peak reverse voltage	V <sub>RSM</sub>	24	36	48	Volts
Maximum average forward rectified current 0.375"(9.5mm)lead length at T <sub>L</sub> =90°C	I(AV)	0.5			Amp
Peak forward surge current 8.3ms single half sine-wave superimposed on rated load (JEDEC method) at T <sub>L</sub> =70°C	I <sub>FSM</sub>	5.0			Amps
Maximum instantaneous forward voltage at 1mA 200mA	V <sub>F</sub>	0.20 0.35			Volts
Maximum instantaneous reverse current at rated DC blocking voltage)	I <sub>R</sub>	0.01 1.0			m A
	T <sub>A</sub> =25°C				
	T <sub>A</sub> =100°C				
Typical junction capacitance	C <sub>J</sub>	10.0			pF
Typical thermal resistance	R <sub>θJA</sub> R <sub>θJL</sub>	50.0 15.0			°C/W
Operating junction and storage temperature range	T <sub>J</sub> T <sub>STG</sub>	-65 to +125			°C

# RATINGS AND CHARACTERISTIC CURVES 1SS101 THRU 1SS301

FIG.1-FORWARD CURRENT DERATING CURVE

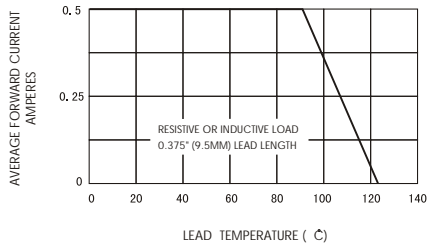


FIG.2-MAXIMUM NON-REPETITIVE PEAK FORWARD SURGE CURRENT

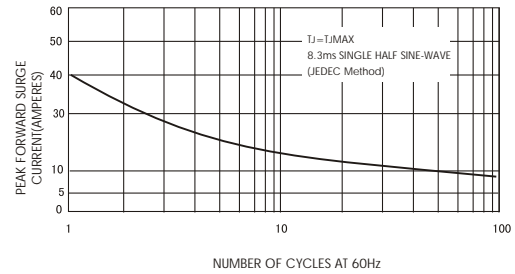


FIG.3-TYPICAL INSTANTANEOUS FORWARD CHARACTERISTICS

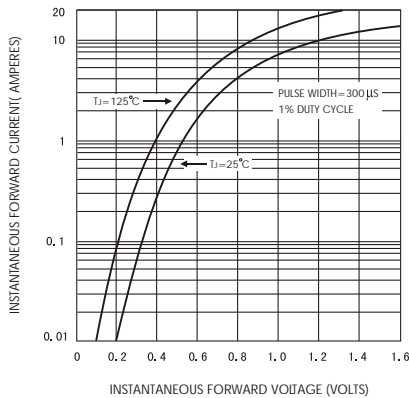


FIG.4-TYPICAL REVERSE CHARACTERISTICS

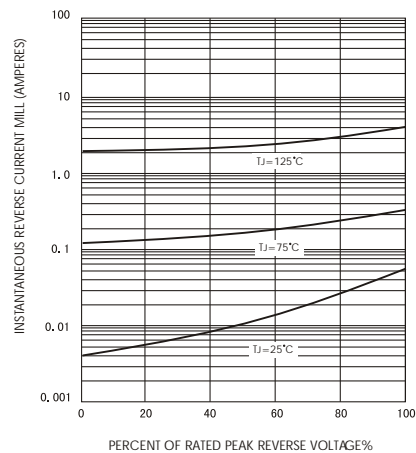


FIG.5-TYPICAL JUNCTION CAPACITANCE

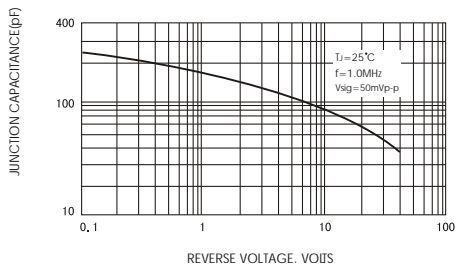


FIG.6-TYPICAL TRANSIENT THERMAL IMPEDANCE

