

## PHOTOVOLTAIC SOLAR CELL PROTECTION SCHOTTKY RECTIFIER

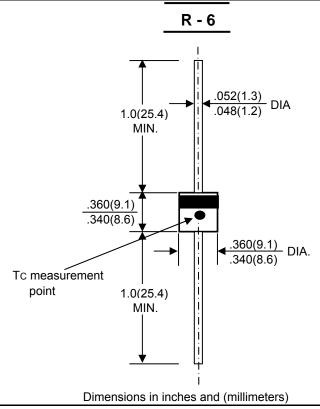
# **REVERSE VOLTAGE - 45Volts FORWARD CURRENT - 30 Amperes**

### **FEATURES**

- Metal of silicon rectifier, majority carrier conduction
- Guard ring for transient protection
- Low power loss, high efficiency
- High current capability, low IR
- High surge capacity
- For use in low voltage, high frequency inverters, free wheeling, and polarity protection applications

## **MECHANICAL DATA**

- Polarity: Color band denotes cathode
- ●Weight: 0.07 ounces , 2.1 grams
- Mounting position: Any



## MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Rating at 25°C ambient temperature unless otherwise specified.

Single phase, half wave ,60Hz, resistive or inductive load.

For capacitive load, derate current by 20%

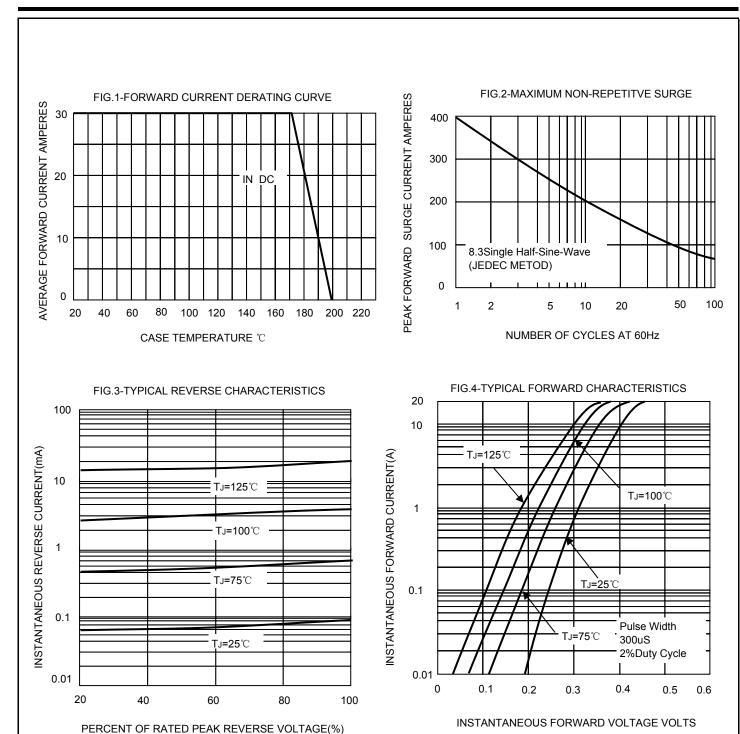
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CHARACTERISTICS		MBOL	30THY045	UNI
Maximum Recurrent Peak Reverse Voltage		RRM	45	V
Maximum RMS Voltage		'RMS	31.5	V
Maximum DC Blocking Voltage		/DC	45	V
Maximum Average Forward Rectified Current @Tc=170 ℃		(AV)	30	А
Peak Forward Surge Current 8.3ms single half sine- wave super imposed on rated load(JEDEC Method)		FSM	400	А
Peak Forward Voltage at 30A DC(Note1)		VF	0.55	V
at Rated DC Blocking Voltage	@Tj=25℃ @Tj=75℃ @Tj=125℃	lR	0.1 2 35	m <i>A</i>
Typical Thermal Resistance NOTE2		Reuc	1.5	℃∧
Operating Temperature Range(IN DC Forward Mode-Forward Operations,without reverse bias, t≤1h)		TJ	-55 to+200	C
Storage Temperature Range		STG	-55 to+200	°C

NOTES:1.300us Pulse Width, 2%Duty Cycle.

2.Thermal Resistance Junction to case.

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The curve graph is for reference only, can't be the basis for judgment(曲线图仅供参考)!



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