

PHOTOVOLTAIC SOLAR CELL PROTECTION SCHOTTKY RECTIFIER

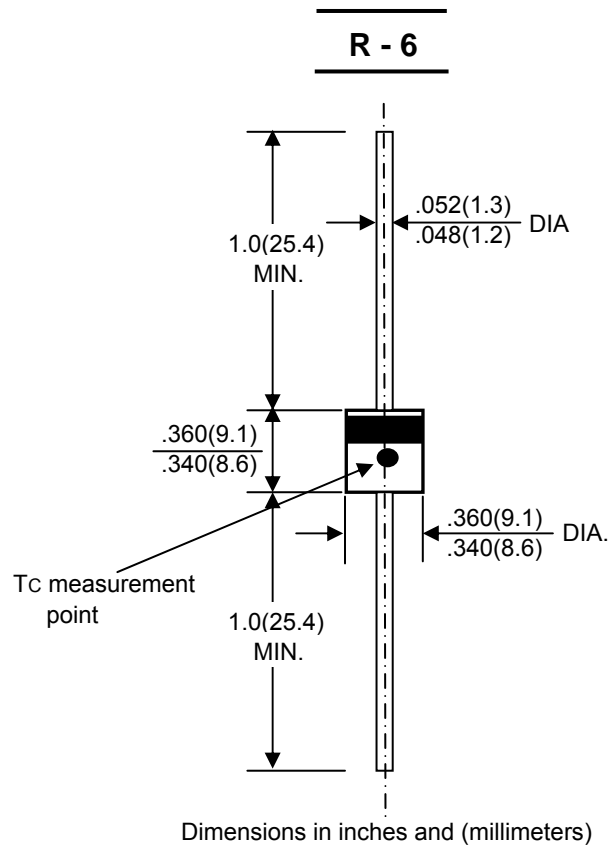
REVERSE VOLTAGE - 45Volts
FORWARD CURRENT - 15.0 Amperes

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.

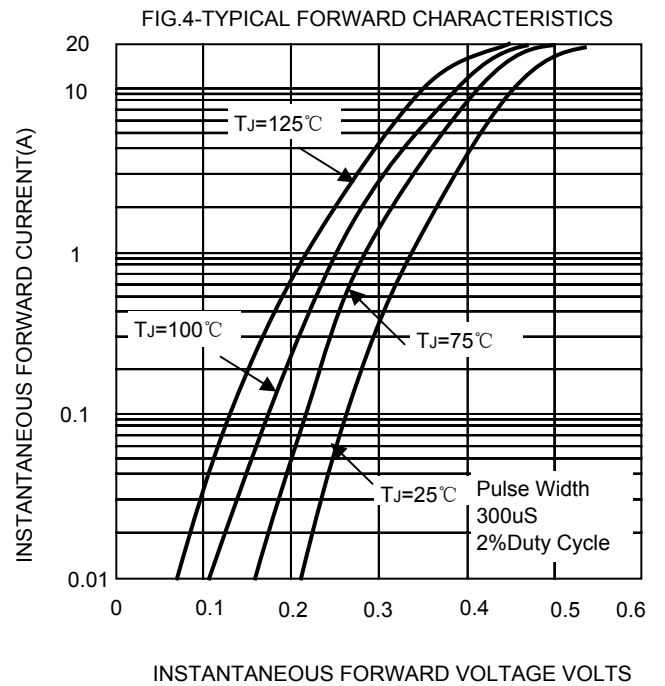
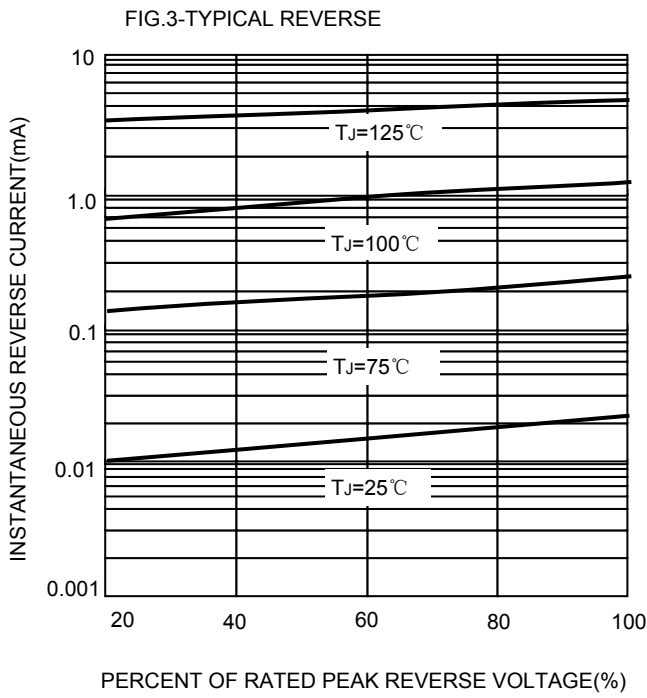
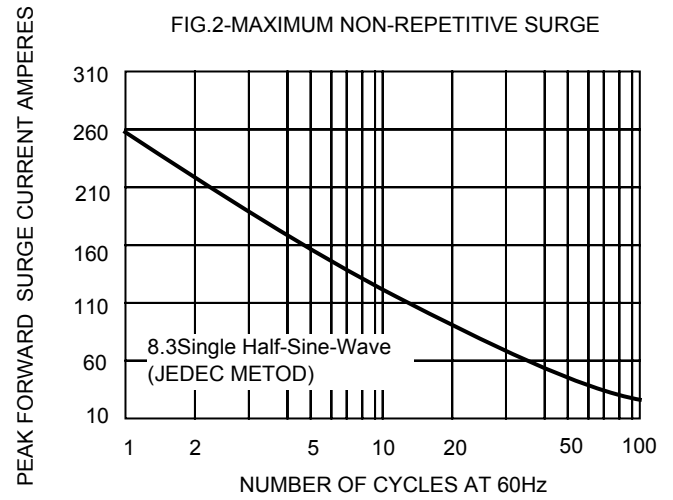
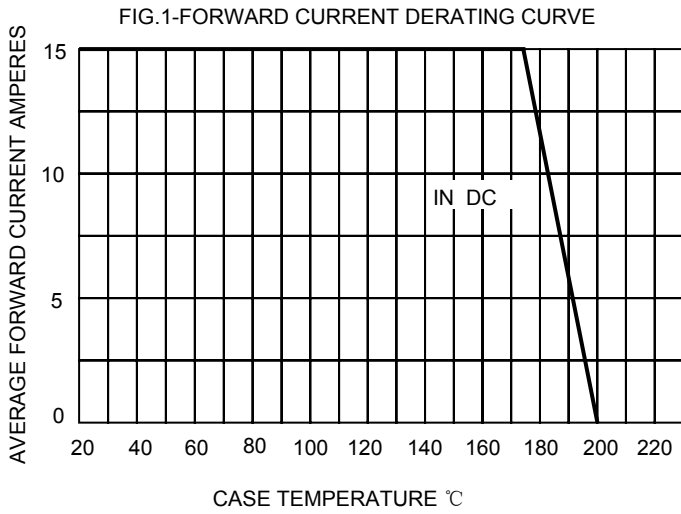
Single phase, half wave ,60Hz, resistive or inductive load.

For capacitive load, derate current by 20%

CHARACTERISTICS	SYMBOL	15THY045	UNIT
Maximum Recurrent Peak Reverse Voltage	VRRM	45	V
Maximum RMS Voltage	VRMS	31.5	V
Maximum DC Blocking Voltage	VDC	45	V
Maximum Average Forward Rectified Current @Tc=175 °C	I(AV)	15	A
Peak Forward Surge Current 8.3ms single half sine-wave super imposed on rated load(JEDEC Method)	IFSM	260	A
Peak Forward Voltage at 15A DC(Note1)	VF	0.55	V
Maximum DC Reverse Current at Rated DC Blocking Voltage	@Tj=25 °C	1.5	mA
	@Tj=75 °C	2.2	
	@Tj=100 °C	15	
	@Tj=125 °C	25	
Typical Thermal Resistance (Note2)	RθJC	3	°C/W
Operating Temperature Range(IN DC Forward Mode-Forward Operations,without reverse bias, t≤1h)	TJ	-55 to+200	°C
Storage Temperature Range	TSTG	-55 to+200	°C

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

2.Thermal Resistance Junction to case.



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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