

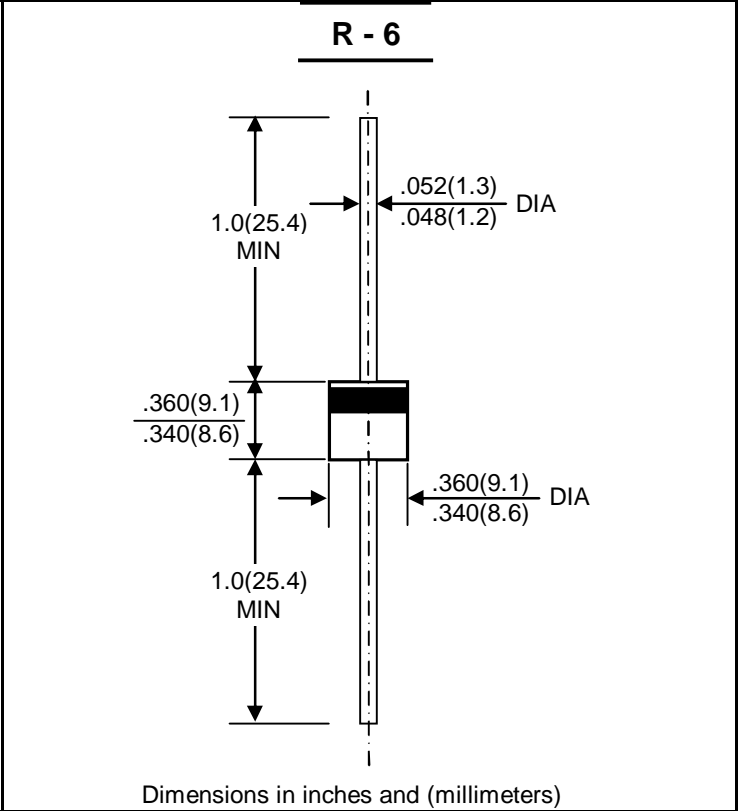
PHOTOVOLTAIC SOLAR CELL PROTECTION SCHOTTKY RECTIFIER	REVERSE VOLTAGE - 30 to 100Volts FORWARD CURRENT - 25.0 Amperes
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FEATURES

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

MECHANICAL DATA

- Case: JEDEC R-6 molded plastic
- 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	25PV030	25PV040	25PV050	25PV060	25PV080	25PV100	UNIT
Maximum Recurrent Peak Reverse Voltage	V _{RRM}	30	40	50	60	80	100	V
Maximum RMS Voltage	V _{RMS}	21	28	35	42	56	70	V
Maximum DC Blocking Voltage	V _{DC}	30	40	50	60	80	100	V
Maximum Average Forward Rectified Current @TL=95 °C	I(AV)	25						A
Peak Forward Surge Current 8.3ms single half sine-wave super imposed on rated load(JEDEC Method)	I _{FSM}	400						A
Peak Forward Voltage at 25A DC(Note1)	V _F	0.55		0.7		0.8		V
Maximum DC Reverse Current @Tj=25°C at Rated DC Blocking Voltage @Tj=100°C	I _R	0.5						mA
Typical Thermal Resistance (Note2)	R _{θJL}	1.8						°C/W
Operating Temperature Range (@Vdc Blocking Voltage)	T _J	-55 to+200						°C
Storage Temperature Range	T _{STG}	-55 to+200						°C

NOTES:1.300us Pulse Width, 2%Duty Cycle.
 2.Thermal Resistance Junction to lead / terminal at a distance 1mm from case.

REV. 1, 30-Dec-2011

FIG.1-FORWARD CURRENT DERATING CURVE

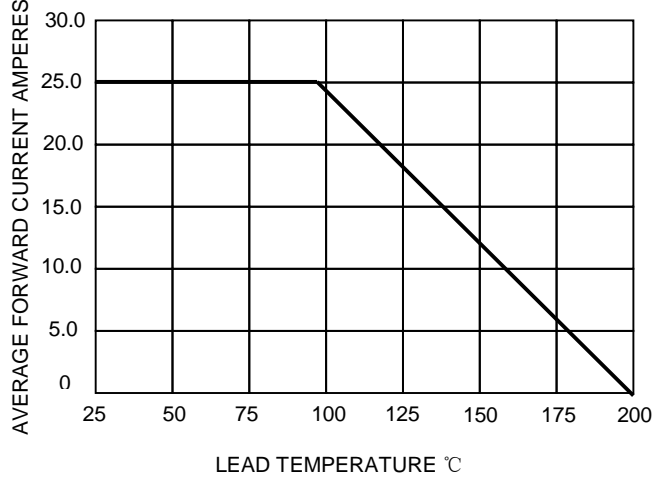


FIG.2-MAXIMUM NON-REPETITIVE SURGE

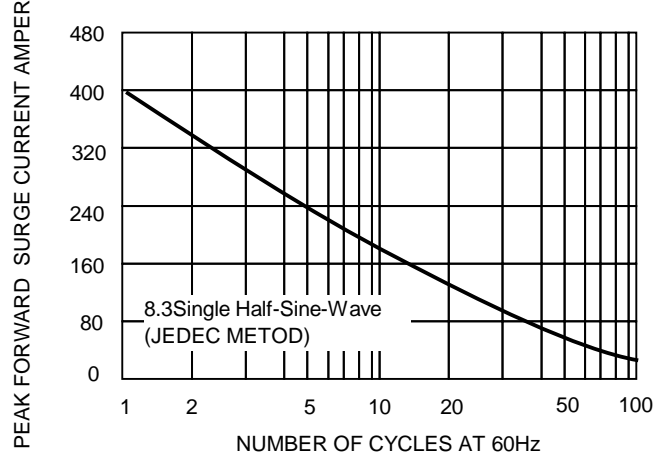


FIG.3-TYPICAL REVERSE CHARACTERISTICS

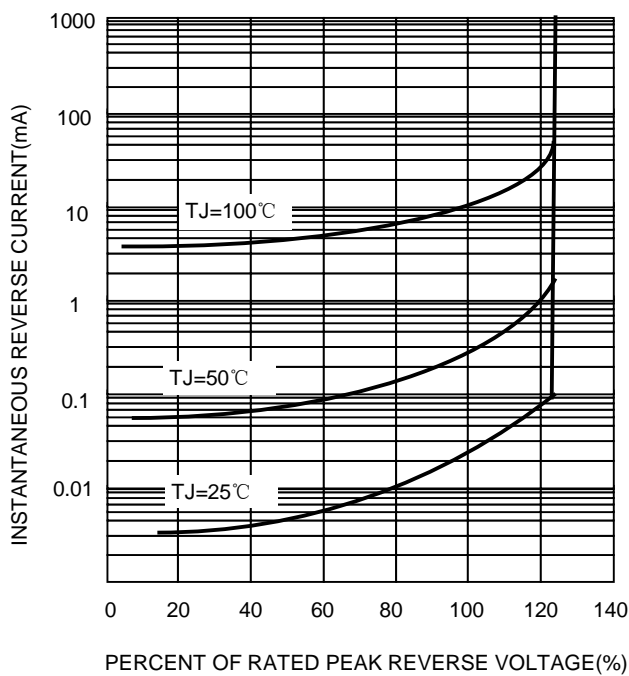


FIG.4-TYPICAL FORWARD CHARACTERISTICS

