

SDC2040C thru SDC2045C

PHOTOVOLTAIC SOLAR CELL PROTECTION SCHOTTKY RECTIFIER

REVERSE VOLTAGE - 40 to 45 Volts FORWARD CURRENT - 20 Amperes

FEATURES

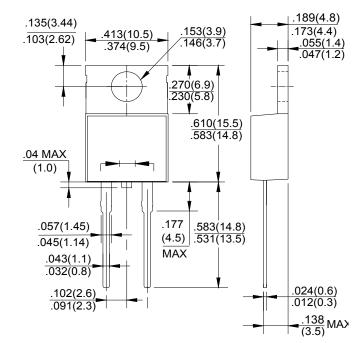
- Metal of silicon rectifier , majority carrier conduction
- Guard ring for transient protection
- ●Low power loss,high efficiency
- ●High current capability,low VF
- High surge capacity
- Plastic package has UL flammability classification 94V-0
- For use in low voltage, high frequency inverters, free wheeling, and polarity protection applications

MECHANICAL DATA

Case: TO-220AC molded plasticPolarity: As marked on the body

Mounting position :Any

TO-220AC



Dimensions in inches and (millimeters)

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%

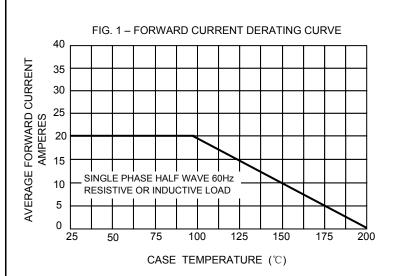
CHARACTERISTICS	SYMBOL	SDC2040C	SDC2045C	UNIT
Maximum Recurrent Peak Reverse Voltage	Vrrm	40	45	V
Maximum RMS Voltage	VRMS	28	31.5	V
Maximum DC Blocking Voltage	VDC	40	45	V
Maximum Average Forward Rectified Current (See Fig.1) @Tc=95 °C	I(AV)	20		А
Peak Forward Surge Current 8.3ms Single Half Sine-Wave Super Imposed on Rated Load (JEDEC Method)	IFSM	150		А
Peak Forward Voltage at 10A DC(Note1)	VF	0.55		V
Maximum DC Reverse Current @TJ=25℃ at Rated DC Bolcking Voltage @TJ=125℃	lR	0.5 50		mA
Typical Thermal Resistance(Note2)	ReJc	1.5		°C/W
Operating Temperature Range	TJ	-55 to +200		$^{\circ}$ C
Storage Temperature Range	Тѕтс	-55 to +200		$^{\circ}$

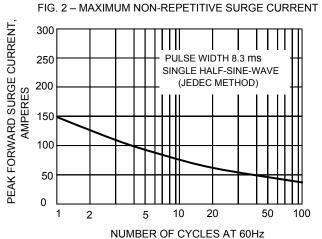
NOTES:1.300us pulse width,2% dudy cycle.

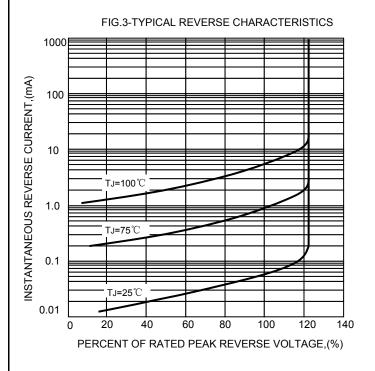
- 2. Thermal Resistance Junction to case(without heatsink).
- 3.The typical data above is for reference only(典型值仅供参考).

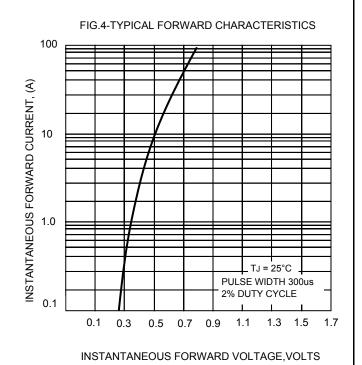
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The cruve graph is for reference only, can't be the basis for judgment(曲线图仅供参考)!

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