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Schottky Barrier Rectifier in DO-214AC/SMA

Features

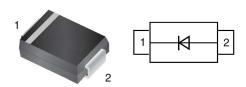
- Schottky barrier diodes
- Low forward voltage drop
- High Tunction Temperature

Mechanical Data

Case: DO-214AC/SMA (plastic package). Lead free; RoHS compliant

■ Molding Compound Flammability Rating: UL 94 V-0

■ **Terminals:** High temperature soldering guaranteed: 260 °C/10 sec. at terminals



Applications

For use in low voltage, high frequency inverters, free wheeling, and polarity protection application

Absolute Maximum Ratings									
Ratings at 25 °C, ambient temperature unless otherwise Parameter	SYMBOLS	SK52A	SK54A	SK56A	SK58A	SK510A	SK515A	SK520A	UNITS
Maximum repetitive peak reverse voltage	VRRM	20	40	60	80	100	150	200	V
Maximum RMS voltage		14	28	42	56	70	105	140	V
Maximum DC blocking voltage		20	40	60	80	100	150	200	V
Maximum average forward rectified current at TL=100 C	l(AV)	5.0			А				
Peak forward surge current, 8.3ms single half sine-wave superimposed on rated load	IFSM	120.0 A				А			
Maximum instantaneous forward voltage at 5.0A	VF	0.5	55	0.70	0.	85	0.	95	V
Maximum DC reverse current T A =25 C at rated DC blocking voltage TA=125 C	lR	0.5 50 0.05 10		m A					
Typical thermal resistance	RqJA	80.0			°C/W				
Operating junction temperature range	TJ	-55 to +150			°C				
Storage temperature range	Тѕтс	-55 to +150			°C				

Note1:Thermal resistance from junction to lead,mounted on PCB with 5.0×5.0mm copper pads



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Typical Characteristics ($T_{amb} = 25 \, {}^{\circ}\text{C}$ unless otherwise specified)

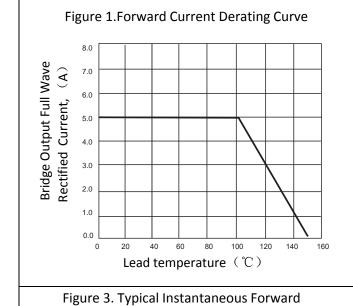
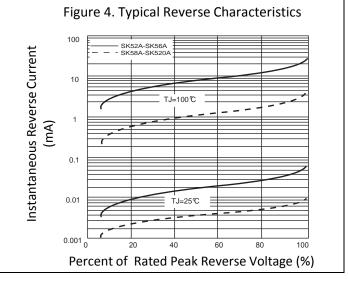


Figure 2.Maximum Non-Repetitive Peak Forward Surge Current

140
120
100
80
80
40
40
20
1 1Cycle
Number of Cycles at 60Hz

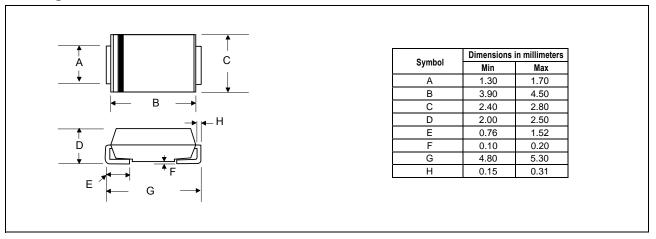


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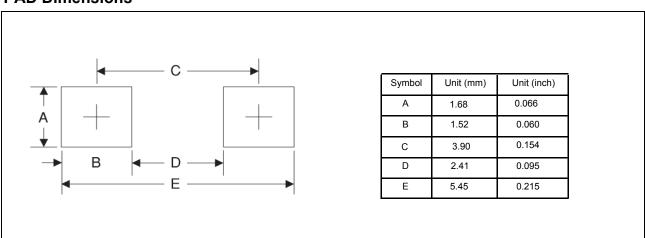


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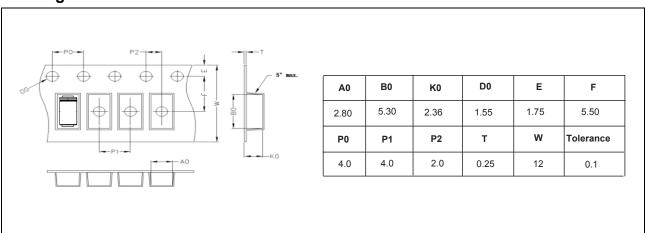
Package Dimensions



PAD Dimensions



Packing Information



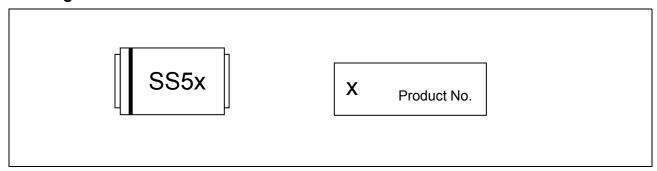


SK52A thur SK520A

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Marking

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Ordering information

Order code	Package	Packaging option	Base quantity	Packaging specification	
SK52A Thur SK520A	DO-214AC/SMA	Tape and reel	5000pcs / reel	EIA STD RS-481	

Revision history

Date	Revision	Changes
23-May-2012	1.0	Initial release



SK52A thur SK520A

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