

Surface Mount Schottky Rectifier Reverse Voltage 20 - 60V Forward Current 5A

FEATURES

- . Ideal for automated placement
- Low forward voltage drop
- · Low leakage current
- Meets environmental standard MIL-S-19500D
- Moisture sensitivity:level 1, per J-STD-020
- Solder dip 250 °C, 10s
- Compliant to RoHS Directive 2002/95/EC and in accordance to WEEE 2002/96/EC



Package: DO-214AA (SMB)



APPLICATIONS

For use in general purpose rectification of lighting, power supplies, inverters, converters and freewheeling diodes for consumer, automotive and telecommunication.

PRIMARY CHARACTERISTICS				
lF(AV)	5 A			
VRRM	20V to 60 V			
IFSM	120A			
VF	0.55V&0.67V			
TJ max.	125 °C			

MECHANICAL DATA

Case: DO-214AC, molded epoxy body, Epoxy meets UL 94V-0 flammability rating **Terminals:** Matte tin plated leads, solderable per J-STD-002 and JESD22B-106

Polarity: Laser Band Denotes Cathode Band

MAXIMUM RATINGS (TA = 25 °C unless otherwise noted)									
PARAMETER	SYMBOL	SK52B	SK53B	SK54B	SK55B	SK56B	UNIT		
Maximum repetitive peak reverse voltage	VRRM	20	30	40	50	60	٧		
Maximum RMS voltage	VRMS	14	21	28	35	42	V		
Maximum DC blocking voltage	VDC	20	30	40	50	60	V		
Maximum average forward rectified current at TL (See Fig.1)	lF(AV)	5							
Peak forward surge current 8.3 ms single half sine-wave superimposed on rated load	IFSM	120					Α		
Operating junction temperature range	TJ	- 55 to + 125					°C		
Storage temperature range	Tstg	- 55 to + 125					°C		



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ELECTRICAL CHARACTERISTICS (TA = 25 °C unless otherwise noted)									
PARAMETER	TEST CONDITIONS	SYMBOL	SK52B	SK53B	SK54B	SK55B	SK56B	UNIT	
Maximum instantaneous forward voltage	IF=5A	VF	0.55			0.67		V	
Maximum DC reverse current at rated DC blocking voltage	TJ=25°C	1_	0.5					- mA	
	TJ=100℃	lR	20						
Typical junction capacitance	4.0 V, 1 MHz	Сл	96					pF	
Typical thermal resistance		RθJA (1)	85				°C/W		
		RθJT (2)	25						

Notes: (1) Thermal resistance from junction to ambient, $0.3\times0.3^{''}$ (8.0×8.0mm) copper pads to each terminal

(2) Thermal resistance from junction to terminal, $0.3\times0.3^{''}$ (8.0×8.0mm) copper pads to each terminal

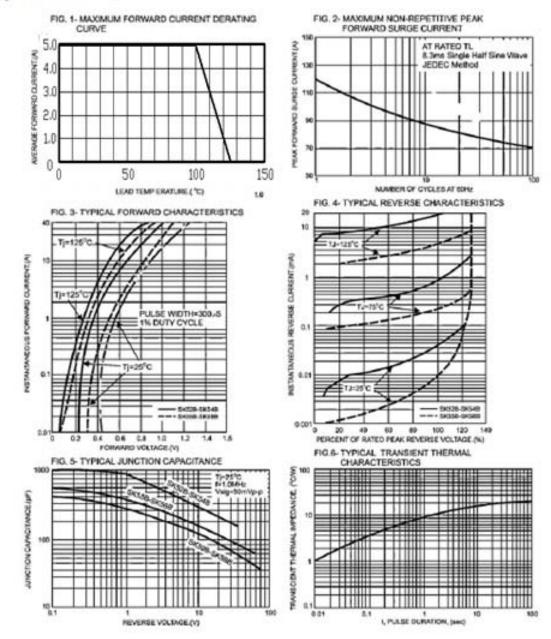


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RATINGS AND CHARACTERISTICS CURVES

(T_a = 25 °C unless otherwise noted)

(T_a = 29°C unless otherwise noted)





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PACKAGE OUTLINE DIMENSIONS in inches (millimeters)

.082(2.08) .076(1.93) .187(4.75) .167(4.25)

