

Schottky rectifiers

Features

- Low profile package
- Ideal for automated placement
- Ultrafast reverse recovery time
- Low power losses, high efficiency
- Low forward voltage drop
- High surge capability
- High temperature soldering: 260 ℃/10 seconds at terminals
- Component in accordance to RoHS 2002/95/1 and WEEE 2002/96/EC





SMC (DO - 214AB)

Mechanical Date

• Case: JEDEC DO-214AB molded plastic • Terminals: Solder plated, solderable per J-STD-002B and JESD22-B102D

• Polarity: Laser band denotes cathode end

Major Ratings and Characteristics

	•
I _{F(AV)}	5.0A
V _{RRM}	20 V to 200 V
I _{FSM}	150A
V _F	0.50V, 0.55V, 0.70V, 0.85V,0.95V
T _j max.	125 °C

Maximum Ratings & Thermal Characteristics

(T_A = 25 °C unless otherwise noted)

Items	Symbol	SK52C	SK53C	SK54C	SK55C	SK56C	SK58C	SK510C	SK515C	SK5200	UNIT
Maximum repetitive peak reverse voltage	V_{RRM}	20	30	40	50	60	80	100	150	200	V
Maximum RMS voltage	V_{RMS}	14	21	28	35	42	56	70	105	140	V
Maximum DC blocking voltage	V_{DC}	20	30	40	50	60	80	100	150	200	V
Maximum average forward rectified current	I _{F(AV)}		5								Α
Peak forward surge current 8.3 ms single half sine-wave superimposed on rated load	I _{FSM}	150								Α	
Voltage rate of change (rated V _R)	dv/dt	10000								V/µs	
Thermal resistance from junction to lead ⁽¹⁾	$R_{\theta JL}$	20								°C/W	
Operating junction and storage temperature range	T _J , T _{STG}	-65 to +125								$^{\circ}$	

Note 1: Mounted on P.C.B. with 0.55×0.55 " (14×14 mm) copper pad areas.

Electrical Characteristics (T_A = 25 °C unless otherwise noted)

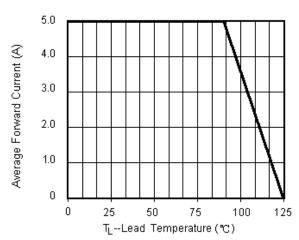
(TA 25 Calmos calcal)																							
Items	Test conditions		Test conditions		Test conditions		Test conditions		Test conditions		Test conditions		Test conditions		Test conditions		Symbol	SK52C	SK53-54C	SK55-56C	SK58-510C	SK515-5200	UNIT
Instantaneous forward voltage	I _F =5.0A ⁽²⁾		V _F	0.50	0.55	0.70	0.85	0.95	V														
Reverse current	V _R =V _{DC}	T _j =25℃		0.5																			
	VR-VDC	T _j =100℃	^I R	10.0																			

Note 2: Pulse test:300µs pulse width,1% duty cycle.



Characteristic Curves (T_A=25 [°]C unless otherwise noted)

Fig.1 Forward Current Derating Curve



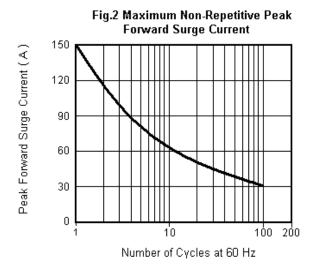


Fig.3 Typical Instantaneous Forward Characteristics

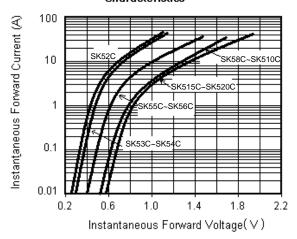
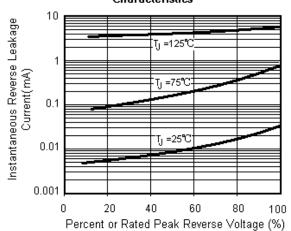


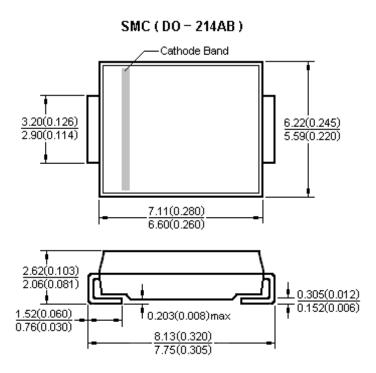
Fig.4 Typical Reverse Leakage Characteristics



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Package Outline



Dimensions in millimeters and (inches)

Shanghai Leiditech Electronic Co.,Ltd

Email: sale1@leiditech.com Tel: +86- 021 50828806 Fax: +86- 021 50477059

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