

# **Major Ratings and Characteristics**

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I <sub>F(AV)</sub>	8.0 A
V <sub>RRM</sub>	20 V to 100 V
I <sub>FSM</sub>	200 A
V <sub>F</sub>	0.50V , 0.55 V , 0.70 V, 0.85V
T <sub>j</sub> max.	150 °C

# Pb



SMC (DO - 214AB)

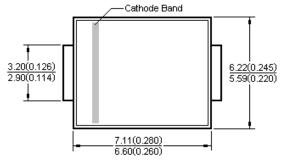
#### **Features**

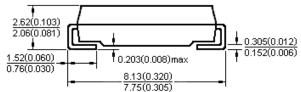
- Low profile package
- Ideal for automated placement
- Ultrafast reverse recovery time
- Low power losses, high efficiency
- Low forward voltage drop
- High surge capability
- High temperature soldering:
  260 °C/10 seconds at terminals
- Component in accordance to RoHS 2002/95/1 and WEEE 2002/96/EC

#### **Mechanical Date**

- Case: JEDEC DO-214AB molded plastic body over passivated chip
- Terminals: Solder plated, solderable per J-STD-002B and JESD22-B102D
- Polarity: Laser band denotes cathode end

#### SMC (DO = 214AB)





Dimentsions in millimeters and (inchs)

## Maximum Ratings & Thermal Characteristics & Electrical Characteristics

(T<sub>A</sub> = 25 °C unless otherwise noted)

	Symbol	SK83	SK83	SK84	SK85	SK86	SK88	SK810	UNIT	
	Syllibol	SINUZ	31103	31104	Sixos	Sixou	Sixoo	SKOTO	ONIT	
Maximum repetitive peak reverse voltage	$V_{RRM}$	20	30	40	50	60	80	100	V	
Maximum RMS voltage	$V_{RMS}$	14	21	28	35	42	56	70	V	
Maximum DC blocking voltage	$V_{DC}$	20	30	40	50	60	80	100	V	
Maximum average forward rectified current	I <sub>F(AV)</sub>	8.0							Α	
Peak forward surge current 8.3 ms single half sine-wave superimposed on rated load	I <sub>FSM</sub>	200							А	
Maximum instantaneous forwad voltage at 8.0.	V <sub>F</sub>	0.50	0.	55	0.70		0.85		V	
Maximum DC reverse current $T_A = 25 \degree$		1.0								
at Rated DC blocking voltage T <sub>A</sub> = 100℃	I <sub>R</sub>	20							mA	
Thermal resistance from junction to ambient	$R_{\theta JL}$	20							°C/W	
Operating junction and storage temperature range	T <sub>J</sub> , T <sub>STG</sub>	_65 to +150							$^{\circ}$	

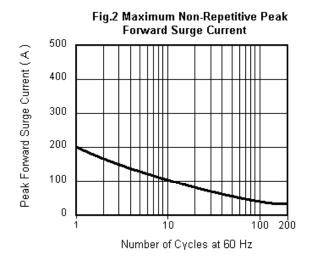


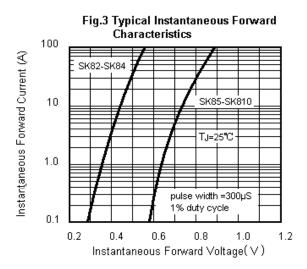
# Schottky rectifier

## Characteristic Curves (T<sub>A</sub>=25 ℃ unless otherwise noted)

Fig.1 Forward Current Derating Curve 10 Average Forward Current (A) 8.0 6.0 4.0 8.3mS single sine-wave 2.0 (JEDEC Method) 0 0 30 60 90 120 150

T<sub>A</sub>--Ambient Temperature (°C)





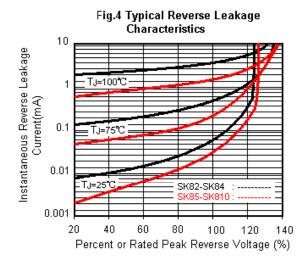


Fig.5 Typical Junction Capacitance

