

**FEATURE**

- ◆ Schottky Barrier Chip
- ◆ Ideally Suited for Automatic Assembly
- ◆ Low power loss, High Efficiency
- ◆ Surge Overload Rating to 50A Peak
- ◆ For Use in low voltahg application
- ◆ Guard ring die construction
- ◆ Plastic Case Material has UL Flammability Classification Rating 94V-O

MECHANICAL DATA

- ◆ Case: SMB/DO-214AA, Molded Plastic.
- ◆ Terminals: Solder Plated, Solderable per MIL-STD-750, Method 2026
- ◆ Polarity: Cathode Band or Cathode Notch
- ◆ Marking: Type Number
- ◆ Weight: 0.093 grams (approx)
- ◆ Lead Free: For RoHS / Lead free Version, Add "LF" suffix to part Number, See page 3.

SMB/DO-214AA		
Dim.	Min.	Max.
A	3.30	3.94
B	4.06	4.70
C	1.91	2.11
D	0.152	0.305
E	5.08	5.59
F	2.13	2.44
G	0.051	0.203
H	0.76	1.27
All Dimensions in mm		

www.sunroc.hk**MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS @TA = 25°C unless otherwise specified**

Characteristic	Symbol	SK22	SK23	SK24	SK25	SK26	SK28	SK29	S210	Unit
Peak Repetitive Reverse Voltage	VRRM									
Working Peak Reverse Voltage	VRWM	20	30	40	50	60	80	90	100	V
DC Blocking Voltage	VR									
RMS Reverse Voltage	VR(RMS)	14	21	28	35	42	56	64	71	V
Average Rectified Outpot Current @TL=75℃	IO	2.0								A
Non-Repetitive Peak Forward Sutge Current 8.3ms Single half sine-wave superimposed on rated load (JEDEC Method)	IFSM	50								A
Forward Voltage @IF=1.0A	VFM	0.50			0.70		0.85			V
Peak Reverse Current @TA=25℃	IRM	0.5								uA
At Rated DC Blocking Voltage @TA=100℃		20								
Typical Thermal Resistance (Note 1)	RθJL	17								℃/W
	RθJA	75								
Operating Temperature Range	Tj	-65 to +125								℃
Storage Temperature Range	TSTG	-65 to +150								℃

Note: 1). Mounted on P.C. Board with 8.0mm² copper pad area.



POWER SEMICONDUCTOR

SK22 ~ S210

2.0A Surface Mount Schottky Barrier diode



品質承諾標誌
Quality Commitment

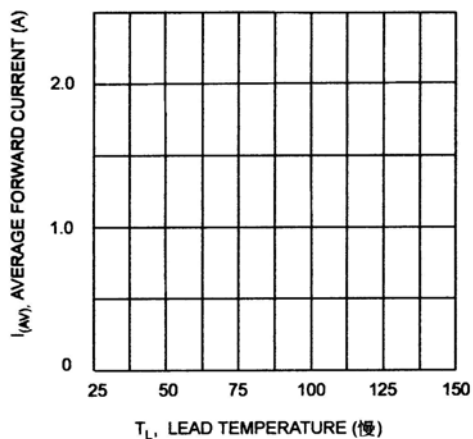


Fig. 1 Forward Current Derating Curve

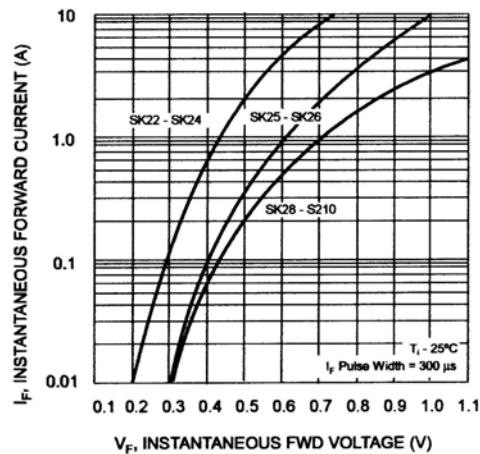


Fig. 2 Typ. Forward Characteristics

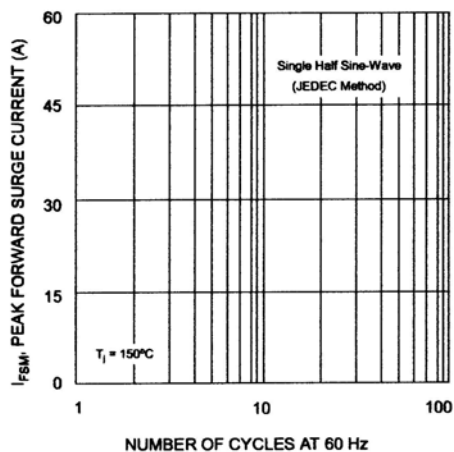


Fig. 3 Max Non-Repetitive Peak Fwd Surge Current

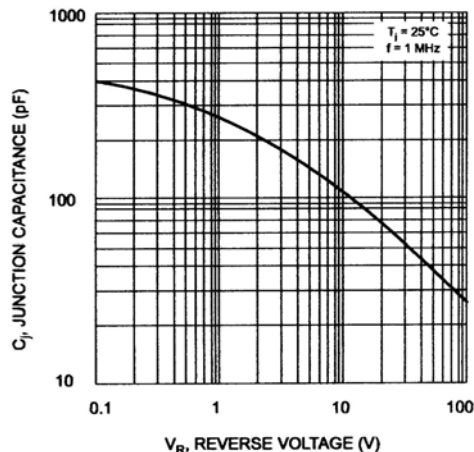


Fig. 4 Typical Junction Capacitance

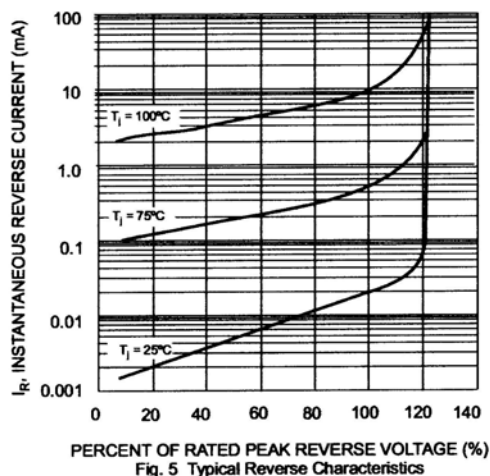
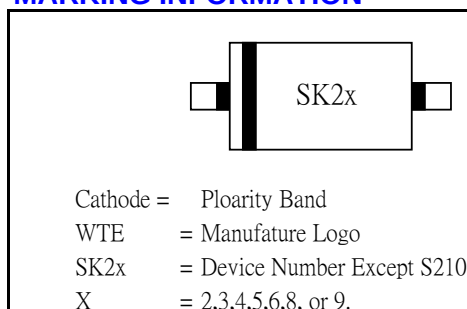


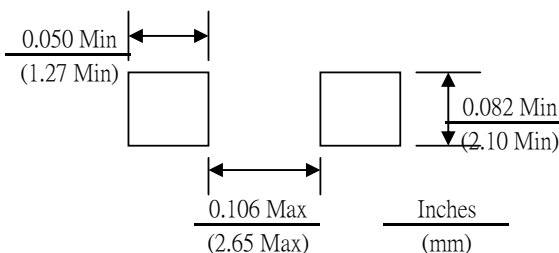
Fig. 5 Typical Reverse Characteristics



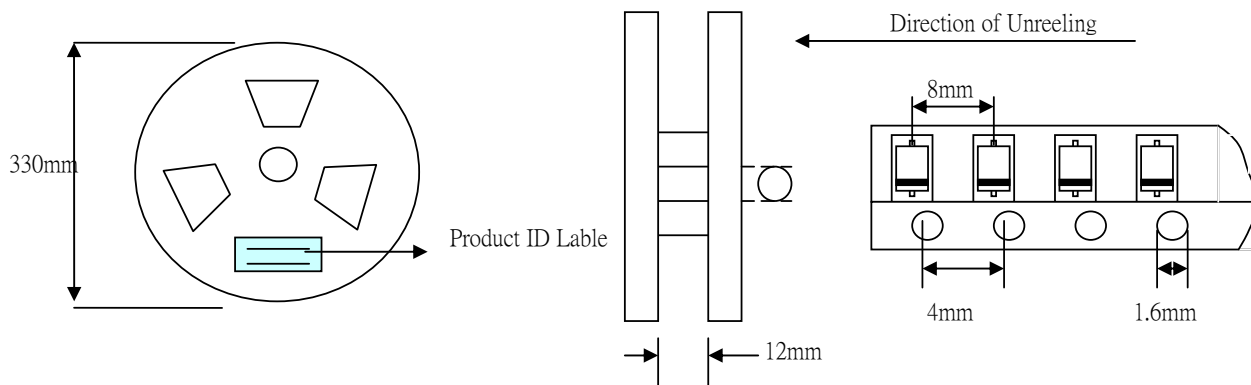
MARKING INFORMATION



RECOMMENDED FOOTPRINT



MARKING INFORMATION



Reel Diameter (mm)	Quantity (PCS)	Inner box Size LxWxH (mm)	Quantity (PCS)	Carton Size LxWxH (mm)	Quantity (PCS)	Approx Gross Weight (KG)
330	3000	340x337x45	6000	370x370x420	48000	14.0

- Note: 1). Paper reel, white or gray color.
2). Components are packed in accordance with EIA standard 481-1 and 481-2.

ORDERING INFORMATION

Product No.	Package Type	Shipping Quantity
SK22-T3	SMB	3000/Tape & Reel
SK23-T3	SMB	3000/Tape & Reel
SK24-T3	SMB	3000/Tape & Reel
SK25-T3	SMB	3000/Tape & Reel
SK26-T3	SMB	3000/Tape & Reel
SK28-T3	SMB	3000/Tape & Reel
SK29-T3	SMB	3000/Tape & Reel
S210-T3	SMB	3000/Tape & Reel

- 1). Shipping quantity given in minimum packing quantity only, for minimum order quantity, please consult the Sales Department.
2). To order RoHS /Lead Free version (with Lead Free finish), add "LF" suffix to part number above, for example, SK22-T3-LF.