

Technical Data Data Sheet N0155, Rev. A Green products

#### **Features**

- Schottky Barrier Chip
- Ideally Suited for Automatic Assembly
- Low Power Loss, High Efficiency
- Surge Overload Rating to 50A Peak
- For Use in Low Voltage Application
- Guard Ring Die Construction
- Plastic Case Material has UL Flammability
- Classification Rating 94V-O
- Green Products in Compliance with the RoHS Directive
- This is a Pb-Free Device
- All SMC parts are traceable to the wafer lot
- Additional testing can be offered upon request

#### **Mechanical Data**

- Case: Low Profile 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.)

<b>├</b> ─ <sub>B</sub> →	-
A + C Directive	F H I G

SMR/DO-214AA

SIVID/DU-Z14AA							
Dim	Min	Max	Min	Max			
Α	3.30	3.94	0.130	0.155			
В	4.06	4.70	0.160	0.185			
С	1.91	2.11	0.075	0.083			
D	0.15	0.31	0.006	0.012			
Е	5.08	5.59	0.200	0.220			
F	2.13	2.44	0.084	0.096			
G	0.05	0.20	0.002	0.008			
Н	0.76	1.27	0.030	0.050			
	In mm		In inch				

#### **Marking Diagram:**



Where XXXXX is YYWWL

SK22 = Part Name YY = Year WW = Week L = Lot Number

Cautions: Molding resin

Epoxy resin UL:94V-0

## **Ordering Information:**

Device	Package	Shipping
SK22-G-SK210-G	SMB (Pb-Free)	3000pcs / reel

For information on tape and reel specifications, including part orientation and tape sizes, please refer to our Tape and Reel Packaging Specification.

<sup>•</sup> Weiqi Street, Airport Development Zone, Jiangning District, Nanjing, China 211113 🗏 (86) 25-87123907 •

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# Maximum Ratings and Electrical Characteristics @TA=25°C unless otherwise specified

Characteristic	Symbol	SK22-G	SK23-G	SK24-G	SK25-G	<b>SK2</b> 6-G	SK28-G	SK29-G	SK210 G	Unit
Peak Repetitive Reverse Voltage Working Peak Reverse Voltage DC Blocking Voltage	VRRM VRWM VR	20	30	40	50	60	80	90	100	V
RMS Reverse Voltage	VR(RMS)	14	21	28	35	42	56	64	71	٧
Average Rectified Output Current @T <sub>L</sub> = 105°C	lo	2.0				Α				
Non-Repetitive Peak Forward Surge Current 8.3ms Single half sine-wave superimposed on rated load (JEDEC Method)	Ігѕм	50				А				
Forward Voltage @I <sub>F</sub> = 2.0A	VFM	0.55 0.70 0.85					٧			
Peak Reverse Current @T <sub>A</sub> = 25°C At Rated DC Blocking Voltage @T <sub>A</sub> = 100°C	lгм	0.5 20					mA			
Typical Thermal Resistance Junction to Ambient (Note 1)	Rтнја	75				°C/W				
Operating Temperature Range	TJ	-65 to +125				°C				
Storage Temperature Range	Тѕтс	-65 to +150				°C				

Note: 1. Mounted on P.C. Board with 8.0mm<sup>2</sup> copper pad areas

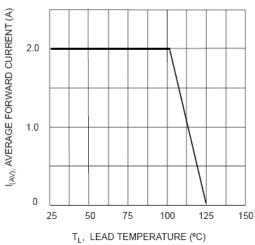
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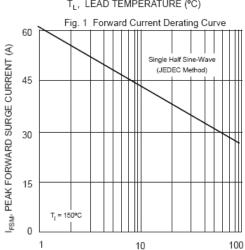
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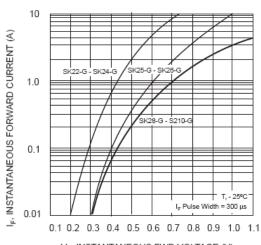
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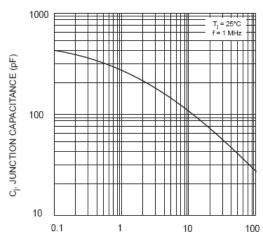




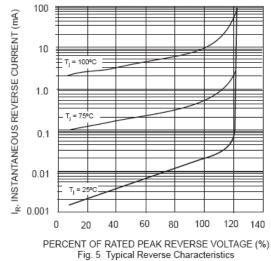




V<sub>F</sub>, INSTANTANEOUS FWD VOLTAGE (V) Fig. 2 Typ. Forward Characteristics



V<sub>R</sub>, REVERSE VOLTAGE (V) Fig. 4 Typical Junction Capacitance



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# SK22-G-SK210-G 2.0A SURFACE MOUNT SCHOTTKY BARRIER RECTIFIER

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