



# SK23L SERIES

## LOW VF SCHOTTKY RECTIFIER

**VOLTAGE** 30 to 100 Volt **CURRENT** 2 Ampere

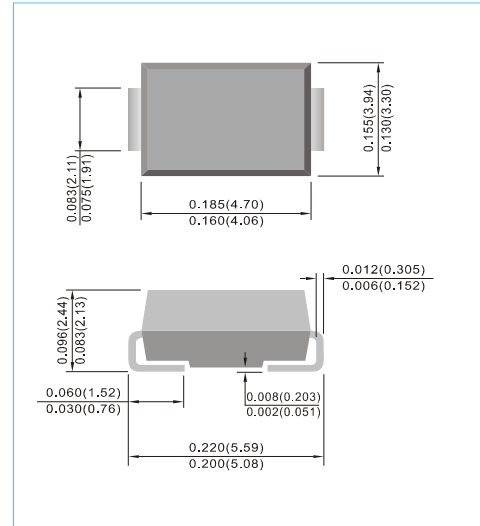
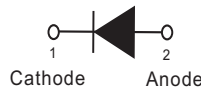
**SMB / DO-214AA** Unit : inch(mm)

### FEATURES

- Plastic package has Underwriters Laboratory Flammability Classification 94V-0
- For surface mounted applications in order to optimize board space
- Low power loss, high efficiency
- High surge capacity
- IEC61000-4-2 ESD 15KV air, 8KV Contact Compliance
- Lead free in compliance with EU RoHS 2.0
- Green molding compound as per IEC 61249 standard

### MECHANICAL DATA

- Case: JEDEC DO-214AA molded plastic
- Terminals: Solder plated, solderable per MIL-STD-750, Method 2026
- Polarity: Color band denotes cathode end
- Standard packaging: 12mm tape (EIA-481)
- Weight: 0.0032 ounce, 0.092 gram



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

PARAMETER	SYMBOL	SK23L	SK24L	SK26L	S210L	UNIT
Maximum repetitive peak reverse voltage	V <sub>RRM</sub>	30	40	60	100	V
Maximum rms voltage	V <sub>RMS</sub>	21	28	42	70	V
Maximum dc blocking voltage	V <sub>DC</sub>	30	40	60	100	V
Maximum average forward rectified current	I <sub>F(AV)</sub>	2				A
Maximum reverse current	I <sub>R</sub>	250		150		μA
Peak forward surge current : 8.3ms single half sine-wave superimposed on rated load	I <sub>FSM</sub>	50				A
Typical thermal resistance (Note 1)	R <sub>θJA</sub> R <sub>θJL</sub>	115 20				°C/W
Operating junction temperature range	T <sub>J</sub>	-55 to + 125			-55 to + 150	°C
Storage temperature range	T <sub>STG</sub>	-55 to + 150				°C

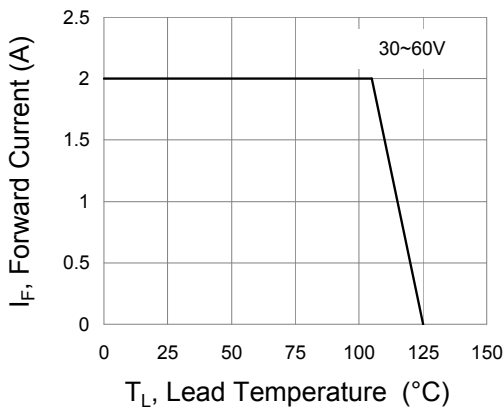
Note: 1. Mounted on P.C.B with minimum pad layout.

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

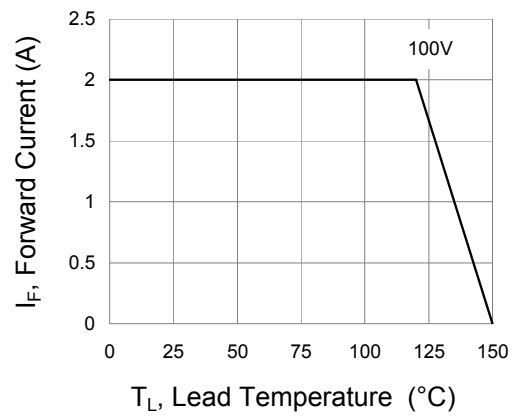
PARAMETER	SYMBOL	TEST CONDITIONS	SK23L / SK24L		SK26L		S210L		UNIT	
			TYP.	MAX.	TYP.	MAX.	TYP.	MAX.		
Instantaneous forward voltage	V <sub>F</sub>	I <sub>F</sub> =1A I <sub>F</sub> =2A	T <sub>A</sub> =25°C	0.37	-	0.40	-	0.53	-	V
				0.41	0.45	0.47	0.52	0.66	0.72	
		I <sub>F</sub> =1A I <sub>F</sub> =2A	T <sub>A</sub> =125°C	0.25	-	0.30	-	0.47	-	V
				0.30	-	0.41	-	0.56	-	



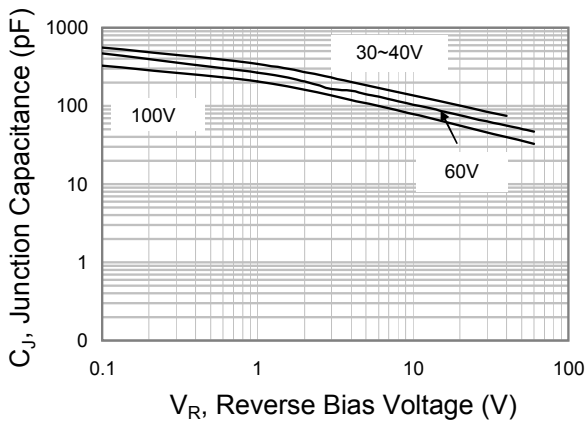
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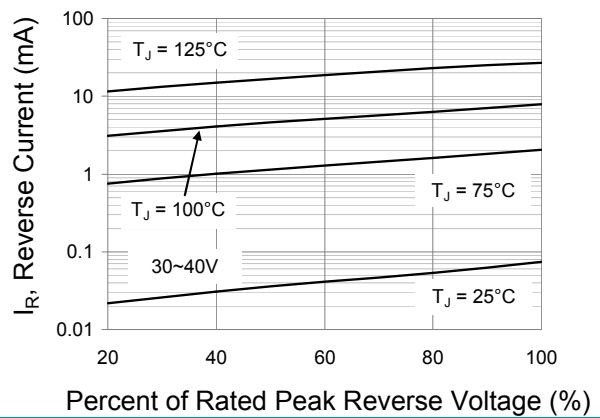
**Fig.1 Forward Current Derating Curve**



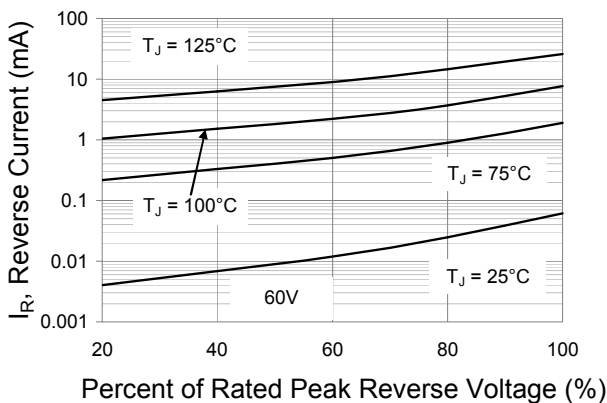
**Fig.2 Typical Junction Capacitance**



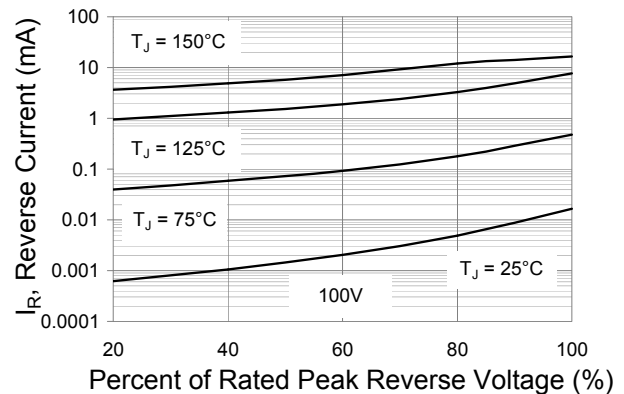
**Fig.3 Typical Junction Capacitance**



**Fig.4 Typical Reverse Characteristics**



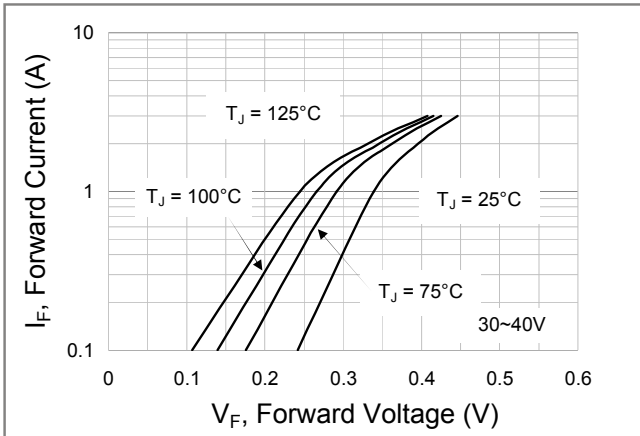
**Fig.5 Typical Reverse Characteristics**



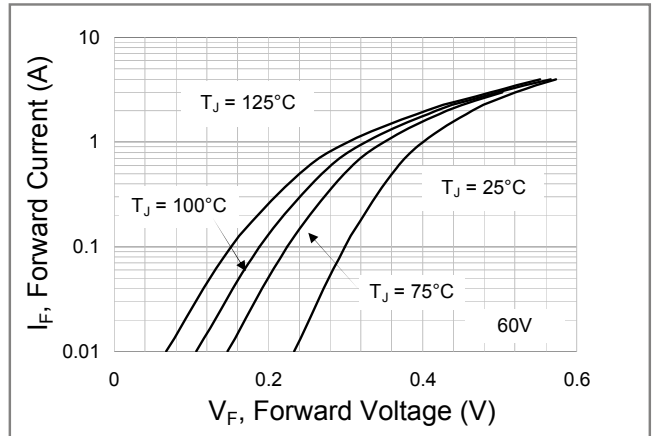
**Fig.6 Typical Reverse Characteristics**



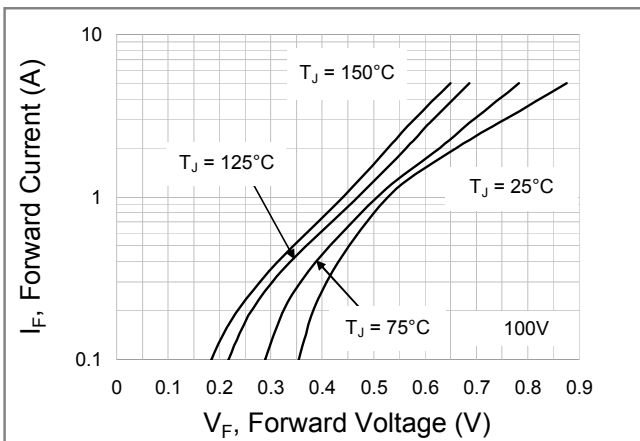
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**Fig.7 Typical Forward Characteristics**



**Fig.8 Typical Forward Characteristics**



**Fig.9 Typical Forward Characteristics**

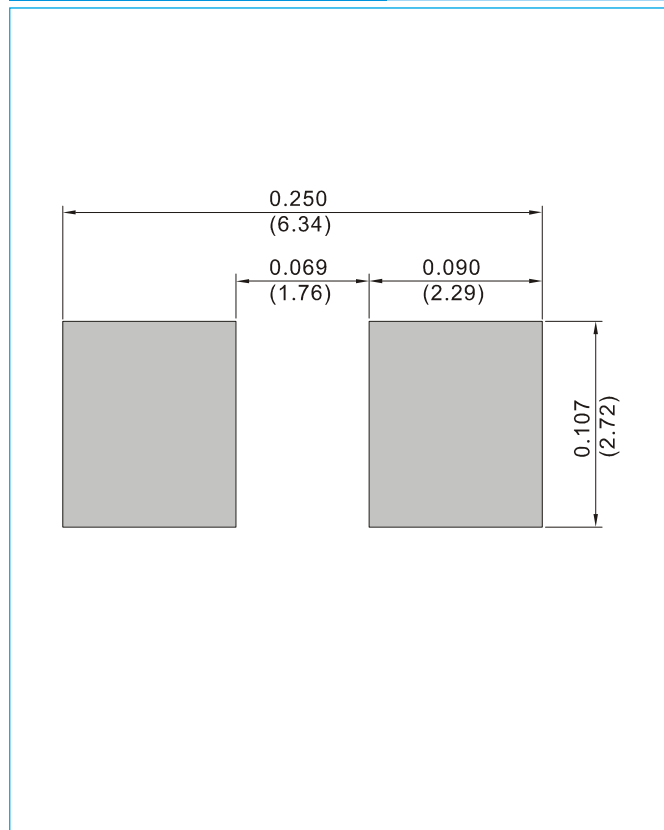


## SK23L SERIES

### MOUNTING PAD LAYOUT

SMB / DO-214AA

Unit : inch(mm)



### ORDER INFORMATION

- Packing information  
T/R - 3K per 13" plastic Reel  
T/R - 0.8K per 7" plastic Reel



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### Part No\_packing code\_Version

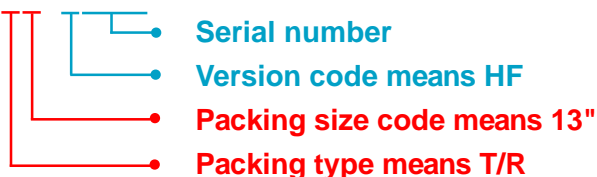
SK23L\_R1\_00001

SK23L\_R2\_00001

For example :

**RB500V-40\_R2\_00001**

Part No.



Packing Code <b>XX</b>				Version Code <b>XXXXX</b>		
Packing type	1 <sup>st</sup> Code	Packing size code	2 <sup>nd</sup> Code	HF or RoHS	1 <sup>st</sup> Code	2 <sup>nd</sup> -5 <sup>th</sup> Code
Tape and Ammunition Box (T/B)	<b>A</b>	N/A	<b>0</b>	<b>HF</b>	<b>0</b>	serial number
Tape and Reel (T/R)	<b>R</b>	7"	<b>1</b>	<b>RoHS</b>	<b>1</b>	serial number
Bulk Packing (B/P)	<b>B</b>	13"	<b>2</b>			
Tube Packing (T/P)	<b>T</b>	26mm	<b>X</b>			
Tape and Reel (Right Oriented) (TRR)	<b>S</b>	52mm	<b>Y</b>			
Tape and Reel (Left Oriented) (TRL)	<b>L</b>	PANASERT T/B CATHODE UP (PBCU)	<b>U</b>			
FORMING	<b>F</b>	PANASERT T/B CATHODE DOWN (PBCD)	<b>D</b>			



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