



SK23L SERIES

LOW VF SCHOTTKY RECTIFIER

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

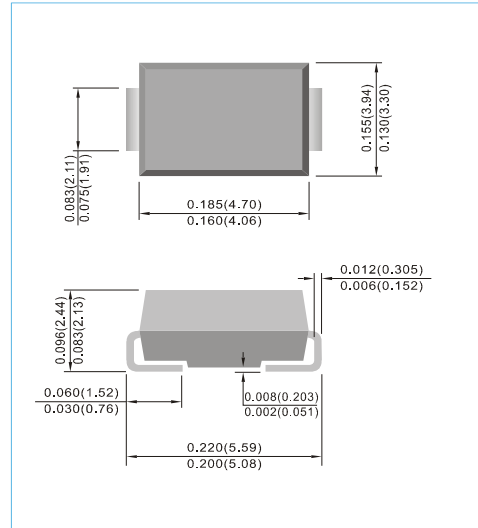
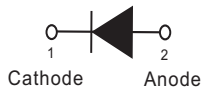
SMB / DO-214AA Unit : inch(mm)

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_A=25°C unless otherwise noted)

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

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

ELECTRICAL CHARACTERISTICS(T_A=25°C unless otherwise noted)

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



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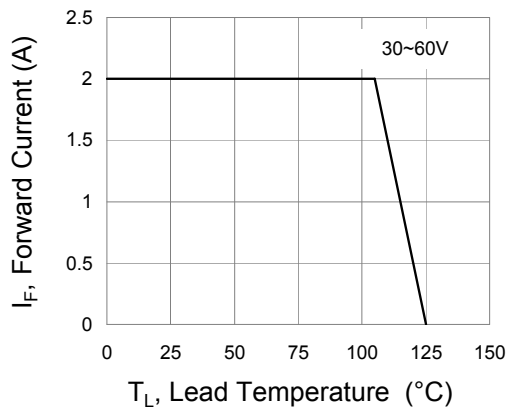


Fig.1 Forward Current Derating Curve

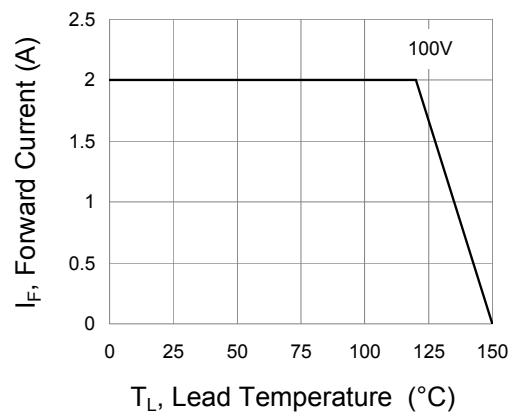


Fig.2 Typical Junction Capacitance

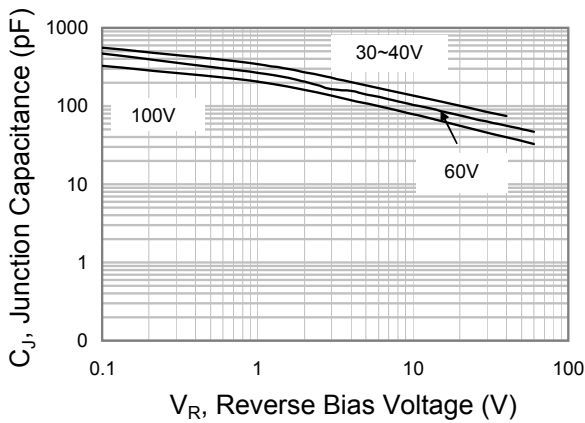


Fig.3 Typical Junction Capacitance

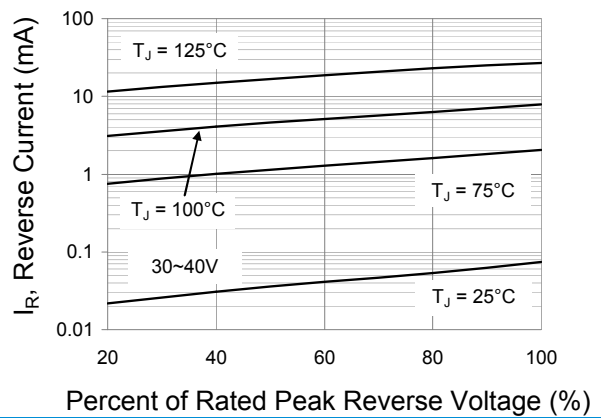


Fig.4 Typical Reverse Characteristics

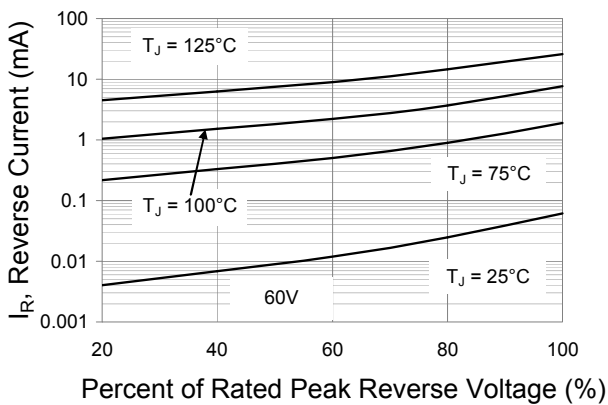


Fig.5 Typical Reverse Characteristics

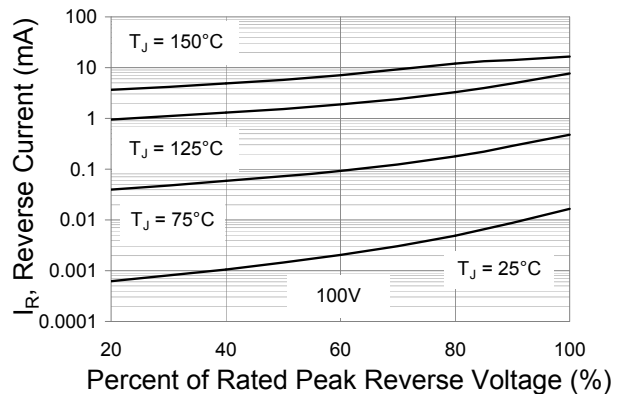


Fig.6 Typical Reverse Characteristics



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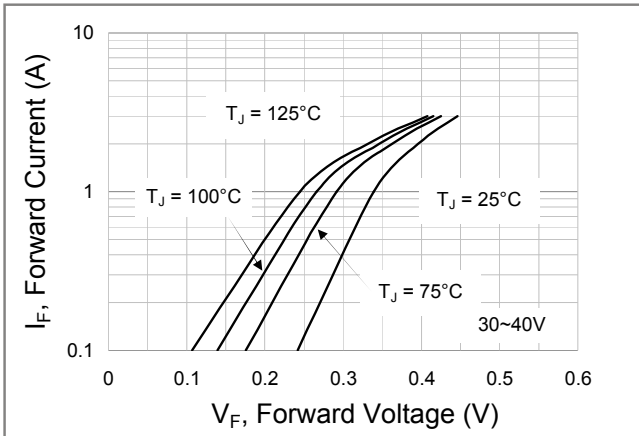


Fig.7 Typical Forward Characteristics

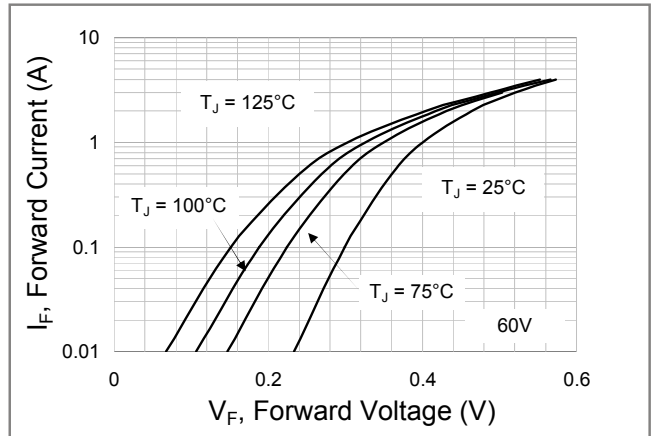


Fig.8 Typical Forward Characteristics

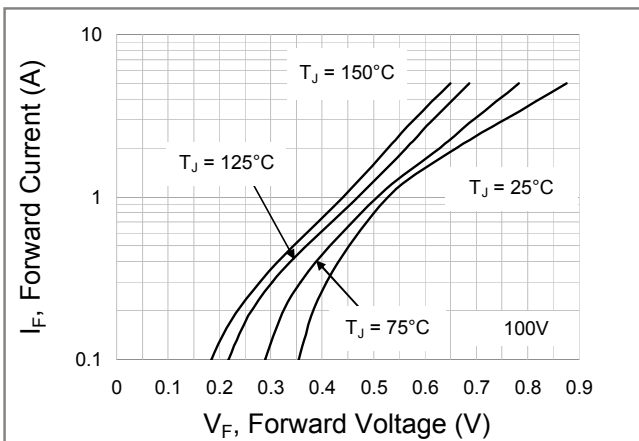


Fig.9 Typical Forward Characteristics

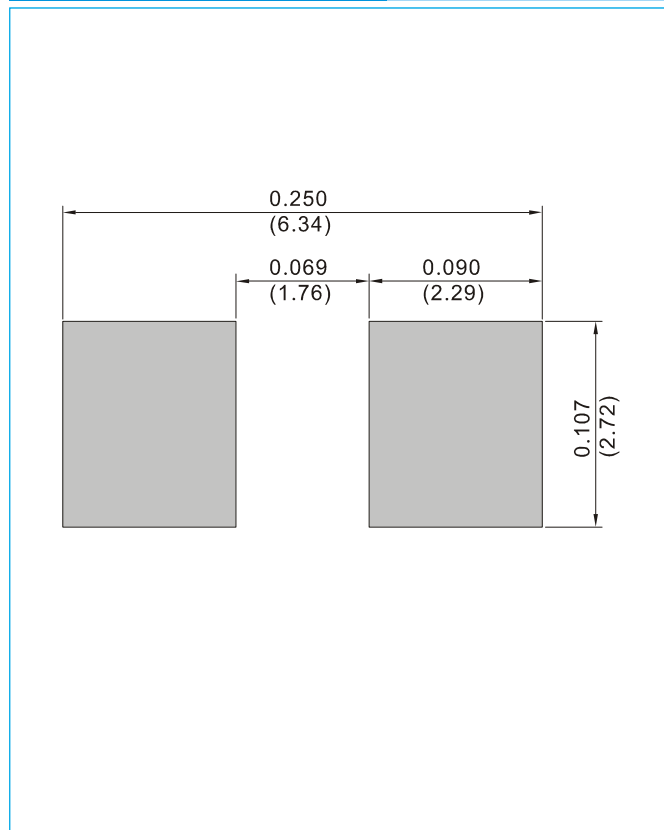


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MOUNTING PAD LAYOUT

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

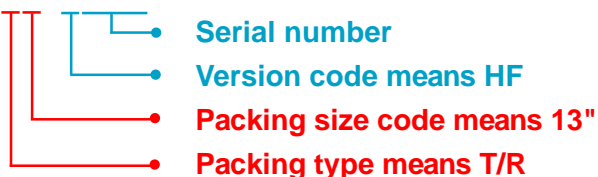
SK23L_R1_00001

SK23L_R2_00001

For example :

RB500V-40_R2_00001

Part No.



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



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