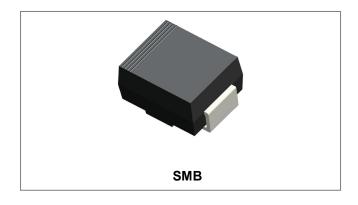






SL22 THRU SL24 LOW VF SURFACE MOUNTSCHOTTKY RECTIFIER



Features

- Schottky Barrier Chip
- Very low forward voltage drop
- Guard Ring Die Construction for Transient Protection
- High Current Capability
- Low Power Loss, High Efficiency
- High Surge Current Capability
- For Use in Low Voltage, High Frequency Inventers, Free Wheeling, and Polarity Protection Applications
- This is a Pb Free Device
- All SMC parts are traceable to the wafer lot
- Additional testing can be offered upon request

Circuit Diagram



Mechanical Data

- Case: Low Profile Molded plastic
- Terminals: Plated leads solderable per MIL-STD-750, Method 2026
- Polarity: Color band or cathode Notch
- Mounting Position: AnyWeight: 0.09grams(approx)

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

Characteristic	Symbol	SL22	SL23	SL24	Units
Peak Repetitive Reverse Voltage Working Peak Reverse Voltage DC Blocking Voltage	V _{RRM} V _{RWM} V _R	20	30	40	V
Maximum RMS voltage	V _{RMS}	14	21	28	V
Average Rectified Output Current @T _L = 105°C	Io	2.0		А	
Non-Repetitive Peak Forward Surge Current 8.3ms Single half sine-wave superimposed on rated load (JEDEC Method)	I _{FSM}	50		А	
Forward Voltage @ I ₀ = 2.0 A	V _F	0.41 0.43		0.43	V
Peak Reverse Current @T _A = 25°C At Rated DC Blocking Voltage @T _A = 100°C	I _{RM}	0.5 20		mA	
Typical Thermal Resistance Junction to Ambient (Note 1)	R _{0JA}	75		K/W	
Operating Temperature Range	TJ	-65 to +125		°C	
Storage Temperature Range	T _{STG}	-65 to +150		°C	

Note: 1. mounted on P.C. Board with 5.0mm² copper pad areas.

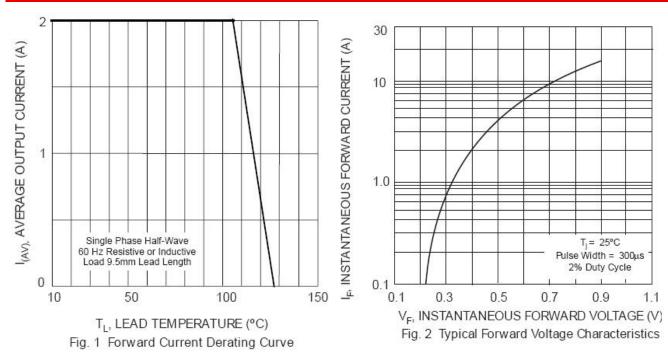
- China Germany Korea Singapore United States
 - http://www.smc-diodes.com sales@ smc-diodes.com •

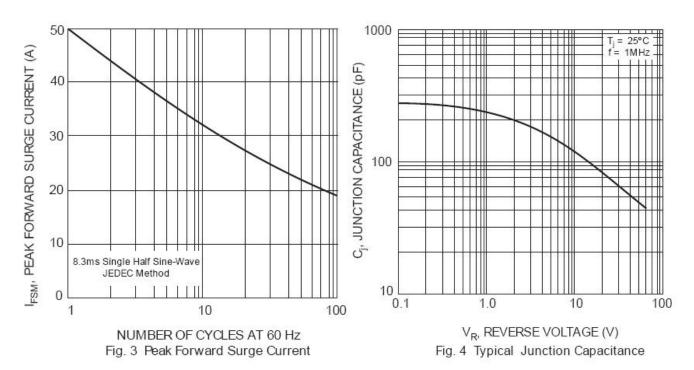






Ratings and Characteristics Curves





[•] China - Germany - Korea - Singapore - United States •

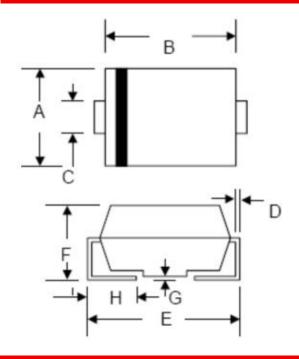
[•] http://www.smc-diodes.com - sales@ smc-diodes.com •







Mechanical Dimensions SMB



SYMBOL	Millir	meters	Inches	
STIMBUL	Min.	Max.	Min.	Max.
А	3.30	3.94	0.130	0.155
В	4.06	4.70	0.160	0.185
С	1.80	2.20	0.071	0.087
D	0.152	0.305	0.006	0.012
E	4.80	5.59	0.189	0.220
F	2.10	2.60	0.083	0.102
G	0.051	0.203	0.002	0.008
Н	0.76	1.52	0.030	0.060

Ordering Information

Device	Package	Shipping	
SL22 - SL24	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.

Marking Diagram



Where XXXXX is YYWWL

 SL22
 = Part Name

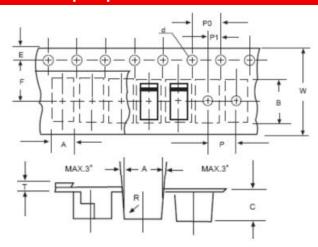
 YY
 = Year

 WW
 = Week

 L
 = Lot Number

Cautions: Molding resin Epoxy resin UL:94V-0

Carrier Tape Specification SMB



SYMBOL	Millimeters		
	Min.	Max.	
Α	3.99	4.19	
В	5.72	5.92	
С	3.23	3.43	
d	1.40	1.60	
E	1.40	1.60	
F	5.60	5.70	
Р	7.90	8.10	
P0	3.90	4.10	
P1	1.90	2.10	
Т	-	0.60	
W	11.80	12.20	

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