

Surface Mounted Schottky Barrier Rectifiers

<u>SMB</u>



Features

- Low forward voltage drop
- High current capability
- Moisture sensitivity: level 1, per J-STD-020
- AEC-Q101 qualified
- High temperature soldering guaranteed: 260°C/10 seconds
- Halogen-free according to IEC 61249-2-21 definition

Primary characteristics					
I _{F(AV)}	2A				
V_{RRM}	20V to 40V				
I _{FSM}	45A				
I _{RM}	0.2mA				
V _{FM} at I _F =2A	0.42V				
T _J max.	150 °C				

Applications

For use in low voltage, high frequency inverters, free wheeling, and polarity protection applications

Mechanical data

- SMB
- Epoxy meets UL 94 V-0 flammability rating
- Terminals: Tin plated leads.
- Polarity: As marked.

Maximum rating (Ta=25°Cunless otherwise noted)								
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Parameter		Sym	SL22 SL23 SL24		SL24	Unit		
Max. repetitive peak reverse voltage		V _{RRM}	20	30	40	V		
Max. RMS reverse voltage		V _{RMS}	14	21	28	V		
Max. DC blocking voltage		V_{DC}	20	30	40	V		
Max. average forward current		I _{F(AV)}	2		Α			
Non-repetitive peak forward surge current		IFSM	45		А			
8.3ms single half-sine-wave		IFSM	45					
Max. instantaneous forward voltage drop per diode		V _{FM}	0.42		V			
Max. instantaneous reverse current	Ta=25 °C	<u> </u>	0.2		mA			
at rated DC blocking voltage	Ta=125 °C	I _{RM}	20					
Operating junction temperature		TJ	-55 ~ + 150		°C			
Storage temperature		Tstg	-55 ~ + 150		°C			
Typical thermal resistance (Note1)		R ⊝J-т	22		0000			
		R _{OJ-A}		72		•C/W		

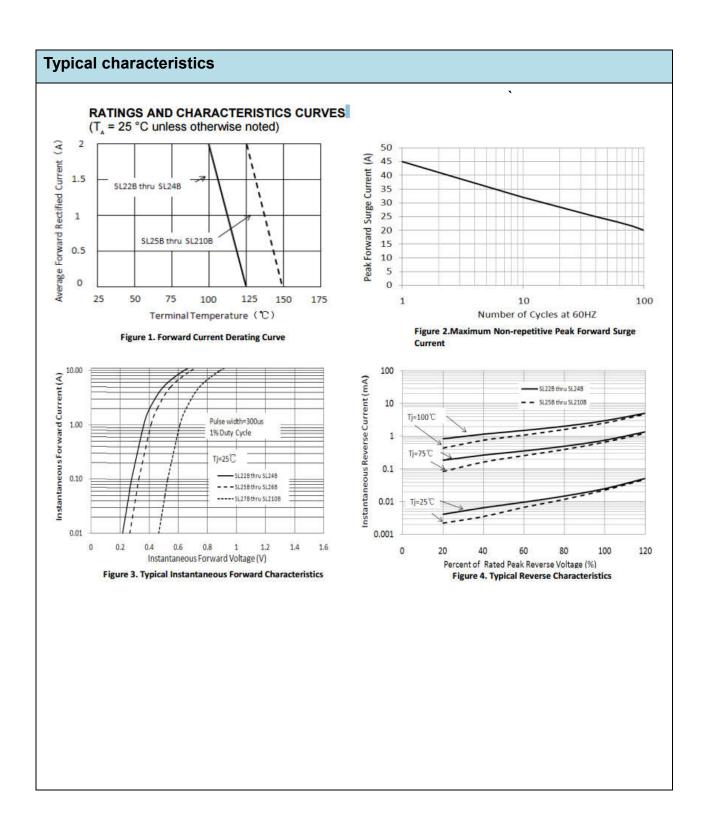
Notes:

¹ The thermal resistance from junction to ambient and terminal.



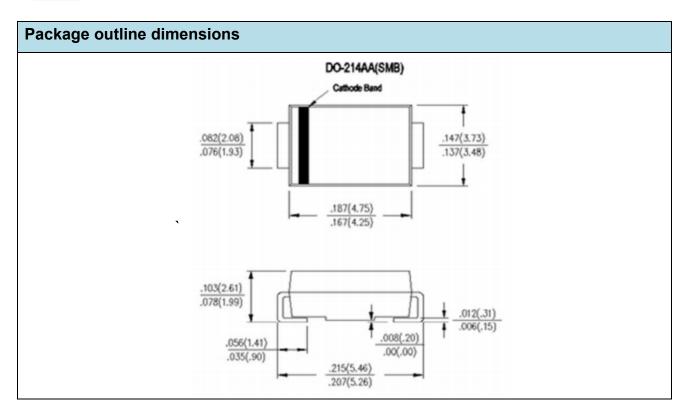
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Orderinginformation (Example)						
PREFERRED	UNITWEIGHT(g)	PREFERREDPACKAGECODE	BASEQUANTITY	DELIVERYMODE		
SL22						





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