

Features

- Low profile package
- Ideal for automated placement
- Low power losses, high efficiency
- Low forward voltage drop
- ESD≥15KV
- High surge capability
- High temperature soldering: 260°C/10 seconds at terminals
- Component in accordance to RoHS 2002/95/1 and WEEE 2002/96/EC



SMB (DO - 214AA)

Major Ratings and Characteristics

I _{F(AV)}	2.0A
V _{RRM}	20 V to 40 V
I _{FSM}	50A
V _F	0.40V
T _j max.	125 °C

Mechanical Date

- Case: JEDEC DO-214AA molded plastic
- Terminals: Solder plated, solderable per JESD22-B102D
- Polarity: Laser band denotes cathode end

Maximum Ratings & Thermal Characteristics

(T ₄	= 25	°C	unless	otherwise	noted)
(A	20	0	unicoo	0110110100	notea)

Items	Symbol	SL22	SL23	SL24	UNIT	
Maximum repetitive peak reverse voltage	V _{RRM}	20	30	40	V	
Maximum RMS voltage	V _{RMS}	14	21	28	V	
Maximum DC blocking voltage	V _{DC}	20	30	40	V	
Maximum average forward rectified current	I _{F(AV)}	2.0		А		
Peak forward surge current 8.3 ms single half sine- wave superimposed on rated load	I _{FSM}	50		A		
Thermal resistance from junction to lead ⁽¹⁾	R _{θJL}	R _{θJL} 25			°C /W	
Operating junction and storage temperature range	T _{J,} T _{STG}	–65 to +125			°C	

Note 1: Mounted on P.C.B. with 0.28 x 0.28" (7.0 x 7.0mm) copper pad areas.

Electrical Characteristics (T_A = 25 °C unless otherwise noted)

Items	Test co	Test conditions		SL22~SL24	UNIT
Instantaneous forward voltage	I _F =2	I _F =2.0A ⁽²⁾		0.40	V
Reverse current	V _R =V _{DC}	Tj =25 ℃	. I _R	1	mA
	V _R -V _{DC}	Tj =100° ℃		10	IIIA

Note 2: Pulse test:300µs pulse width,1% duty cycle.

TRR®

SL22~SL24 Surface Mount Low VF Schottky Rectifier

Characteristic Curves (T_A=25 $^{\circ}$ C unless otherwise noted)

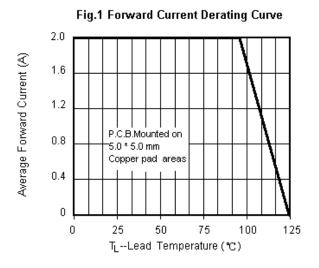


Fig.3 Typical Instantaneous Forward Characteristics

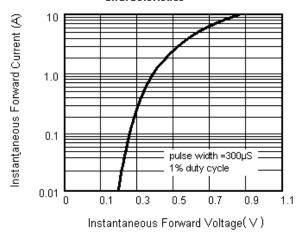
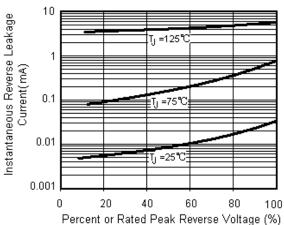


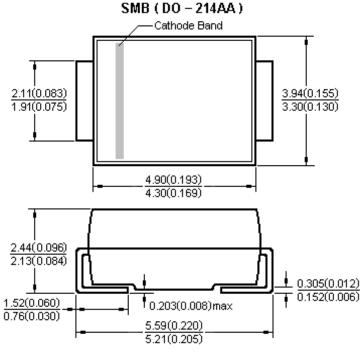
Fig.2 Maximum Non-Repetitive Peak Forward Surge Current

Fig.4 Typical Reverse Leakage Characteristics





Package Outline



Dimensions in millimeters and (inches)

Notice

- Product is intended for use in general electronics applications.
- Product should be worked less than the ratings; if exceeded, may cause permanent damage.or introduce latent failure mechanisms.
- The absolute maximum ratings are rated values and must not be exceeded during operation. The following are the general derating methods you design a circuit with a device.
 - $I_{\text{F(AV)}}$: We recommend that the worst case current be no greater than 80% .
 - I_{FSM} : This rating specifies the non-repetitive peak current. This is only applied for an abnormal operation, which the general during the lifespan of the device.
 - T_{J} : Derate this rating when using a device in order to ensure high reliability. We recommend that the device be used at a T_{J} of below 100°C.
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