

GOOD-ARK Electronics

# 2A,50-100V Schottky Barrier Rectifiers

#### **Features**

- Low leakage current
- Schottky barrier diodes
- Low forward voltage drop
- Moisture sensitivity: level 1, per J-STD-020
- Halogen-free according to IEC 61249-2-21 definition
- High temperature soldering guaranteed: 260 ℃/10 seconds



### **Applications**

For use in low voltage, high frequency inverters, free-wheeling and polarity protection application.

Maximum Ratings & Electrical Characteristics(TA=25°C unless otherwise noted)								
Parameter	Symbol	SL25B	SL26B	SL27B	SL28B	SL29B	SL210B	Unit
Maximum repetitive peak reverse voltage	V <sub>RRM</sub>	50	60	70	80	90	100	V
Maximum RMS voltage	V <sub>RMS</sub>	35	42	49	56	63	70	V
Maximum DC blocking voltage	V <sub>DC</sub>	50	60	70	80	90	100	V
Maximum average forward rectified current	I <sub>F(AV)</sub>	2				Α		
Peak forward surge current,8.3ms single half sine- wave superimposed on rated load per diode	I <sub>FSM</sub>	45				А		
Operating junction temperature range	TJ	-55 to +150				°C		
Storage temperature range	T <sub>STG</sub>	-55 to +150			°C			

Thermal-Mechanical Specifications (TA=25°C unless otherwise noted)						
Parameter	Symbol	Тур	Unit			
Thermal Resistance, Junction to Ambient	Reja	85	°C /W			
Thermal Resistance, Junction to Case	Rejc	15	°C /W			
Thermal Resistance, Junction to Lead	R <sub>eJL</sub>	20	°C /W			



# SL25B thru SL210B GOOD-ARK Electronics

Electrical Specifications(TA=25°C unless otherwise noted)									
Parameter	Symbol	Test Conditions	SL25B	SL26B	SL27B	SL28B	SL29B	SL210B	Unit
Forward Drop Voltage	V <sub>F</sub>	I <sub>F</sub> =2A	0.47			V			
Reverse leakage current I <sub>R</sub> @V <sub>R</sub>	T <sub>J</sub> =25°C	0.15						mA	
	IR	T <sub>J</sub> =100°C	50						IIIA
Typical junction capacitance	С	4.0 V 1 MHZ	175				pF		

#### Note:

1. Mounted on copper pad area of 0.2x0.2" (5.0 x 5.0mm) to each terminal.



#### **Ratings and Characteristics Curves**

(TA = 25°C unless otherwise noted)

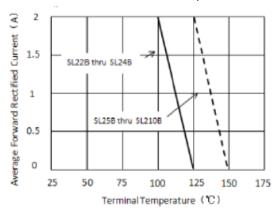


Figure 1.Forward Current Derating Curve

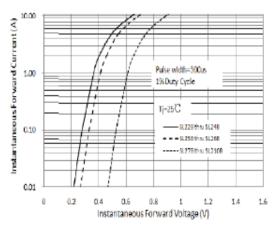


Figure 3. Typical Reverse Characteristics

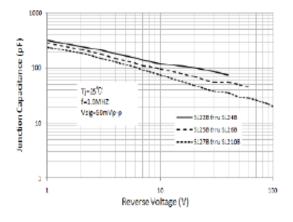


Figure 5. Typical Junction Capacitance

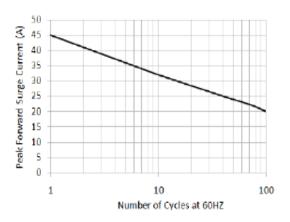


Figure 2.Maximum Non-Repetitive Peak Forward Surge Current

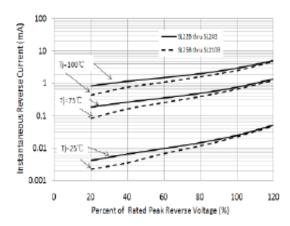


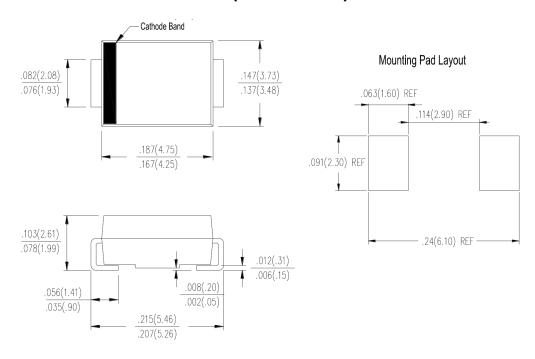
Figure 4. Typical Instantaneous Forward Characteristics



### **Package Outline Dimensions**

in inches (millimeters)

# **SMB (DO-214AA)**



# **Revision History**

Document Version	Date of release	Description of changes
Rev.A	2021.06.01	Released Datasheet
Rev.B	2023.10.16	Modify document format



# SL25B thru SL210B

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