Surface Mount Schottky Barrier Rectifier

Reverse Voltage - 60V Forward Current - 5.0A

FEATURES

- Metal silicon junction, majority carrier conduction
- For surface mounted applications
- · Low power loss, high efficiency
- · High forward surge current capability
- For use in low voltage, high frequency inverters, free wheeling, and polarity protection applications

MECHANICAL DATA

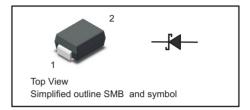
· Case: SMB

• Terminals: Solderable per MIL-STD-750, Method 2026

• Approx. Weight: 0.1g / 0.0034oz

PINNING

PIN	DESCRIPTION	
1	Cathode	
2	Anode	



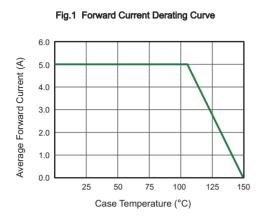
Absolute Maximum Ratings and Electrical characteristics

Ratings at $25\,^{\circ}$ C ambient temperature unless otherwise specified. Single phase, half wave, 60Hz resistive or inductive load, for capacitive load, derate by $20\,\%$

Parameter	Symbols	SSL56BM	Units
Maximum Repetitive Peak Reverse Voltage	V_{RRM}	60	V
Maximum RMS voltage	V_{RMS}	42	V
Maximum DC Blocking Voltage	V _{DC}	60	V
Maximum Average Forward Rectified Current @ Fig.1	I _{F(AV)}	5.0	Α
Peak Forward Surge Current,8.3ms Single Half Sine-wave Superimposed on Rated Load (JEDEC method)	I _{FSM}	150	А
Peak Forward Surge Current,1.0ms Single Half Sine-wave Superimposed on Rated Load (JEDEC method)	I _{FSM}	300	Α
I ² t Rating for fusing (3ms≤t≤8.3ms)	l ² t	93.3	A ² S
Max Instantaneous Forward Voltage at 5 A	V _F	0.45	V
Maximum DC Reverse Current $T_a = 25^{\circ}C$ at Rated DC Reverse Voltage $T_a = 100^{\circ}C$	I _R	0.5 50	mA
Typical Junction Capacitance (1)	C _j	540	pF
Typical Thermal Resistance (2)	$R_{ heta JA} \ R_{ heta JC} \ R_{ heta JL}$	43 9 18	°C/W
Operating Junction Temperature Range	Tj	-55 ~ +150	°C
Storage Temperature Range	T _{stg}	-55 ~ +150	°C

⁽¹⁾ Measured at 1 MHz and applied reverse voltage of 4 V D.C

⁽²⁾ P.C.B. mounted with 1.5" X 1.5" (3.81 X 3.81 cm) copper pad areas.



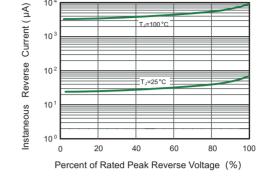
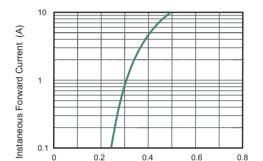
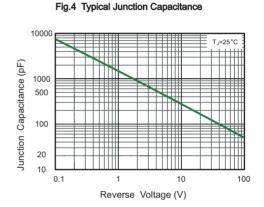


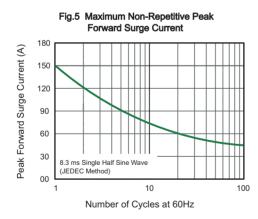
Fig.2 Typical Reverse Characteristics



Instaneous Forward Voltage (V)

Fig.3 Typical Forward Characteristic

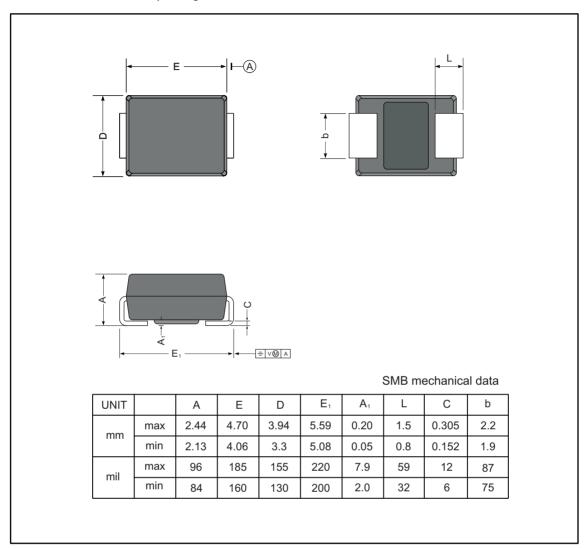




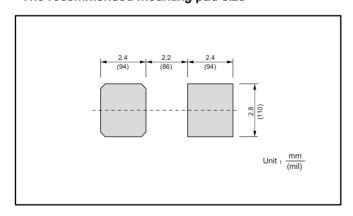
PACKAGE OUTLINE

Plastic surface mounted package; 2 leads

SMB



The recommended mounting pad size



Marking

Type number	Marking code
SSL56BM	SSL56

Important Notice and Disclaimer

Jingdao Microelectronics reserves the right to make changes to this document and its products and specifications at any time without notice.

Customers should obtain and confirm the latest product information and specifications before final design, purchase or use.

Jingdao Microelectronics makes no warranty, representation or guarantee regarding the suitability of its products for any particular purpose, not does Jingdao Microelectronics assume any liability for application assistance or customer product design.

Jingdao Microelectronics does not warrant or accept any liability with products which are purchased or used for any unintended or unauthorized application.

No license is granted by implication or otherwise under any intellectual property rights of Jingdao Microelectronics.

Jingdao Microelectronics products are not authorized for use as critical components in life support devices or systems without express written approval of Jingdao Microelectronics.