5A SURFACE MOUNT LOW VF SCHOTTKY BRIDGE RECTIFIER

FEATURES:

- Reverse Voltage 60 V
- Forward Current 5.0 A
- · Low power loss, high efficiency
- · High Surge Current Capability
- For use in low voltage ,high frequency inverters, free wheeling, and polarity protection applications
- Designed for Surface Mount Application

MECHANICAL DATA

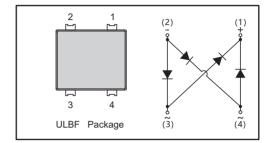
· Case: ULBF

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

Approx. Weight: 0.461g / 0.0163oz

PINNING

PIN	DESCRIPTION	
1	Output Anode (+)	
2	Output Cathode (-)	
3	Input Pin (~)	
4	Input Pin(~)	



Maximum Ratings and Electrical characteristics

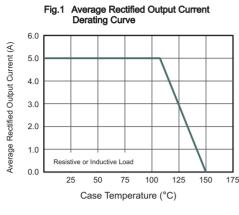
Ratings at 25 °C ambient temperature unless otherwise specified.

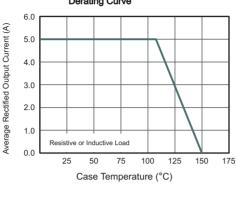
Single phase half-wave 60 Hz, resistive or inductive load, for capacitive load current derate by 20 %.

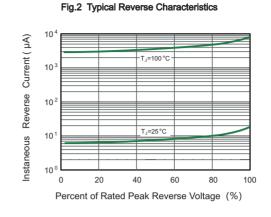
Parameter	Symbols	ULBFL56SM	Units
Maximum Repetitive Peak Reverse Voltage	V_{RRM}	60	٧
Maximum RMS voltage	V_{RMS}	42	V
Maximum DC Blocking Voltage	V _{DC}	60	V
Maximum Average Forward Rectified Current @ Fig.1	I _{F(AV)}	5.0	Α
Peak Forward Surge Current 8.3 ms Single Half Sine Wave Superimposed on Rated Load	I _{FSM}	100	Α
Peak Forward Surge Current 1.0 ms Single Half Sine Wave Superimposed on Rated Load	I _{FSM}	200	А
I ² t Rating for fusing (3ms≤t≤8.3ms)	l²t	41.5	A ² S
Maximum Forward Voltage at 3 A at 5 A	V _F	0.45(TYP) 0.59	V
	I _R	0.3 50	mA
Typical Junction Capacitance (1)	C _j	300	pF
Typical Thermal Resistance (2)	$egin{array}{c} R_{ heta JA} \ R_{ heta JC} \ R_{ heta JL} \end{array}$	32 7 12	°C/W
Operating and Storage Temperature Range	T_{j}, T_{stg}	-55 ~ +150	°C

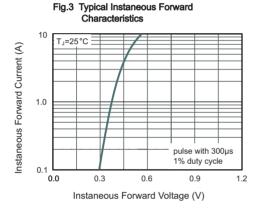
⁽¹⁾ Measured at 1 MHz and applied reverse voltage of 4 V D.C

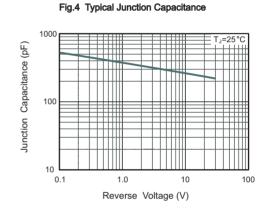
⁽²⁾ P.C.B. mounted with 1.5" X 1.5" (3.81 X 3.81 cm) copper pad areas.

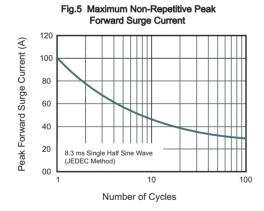








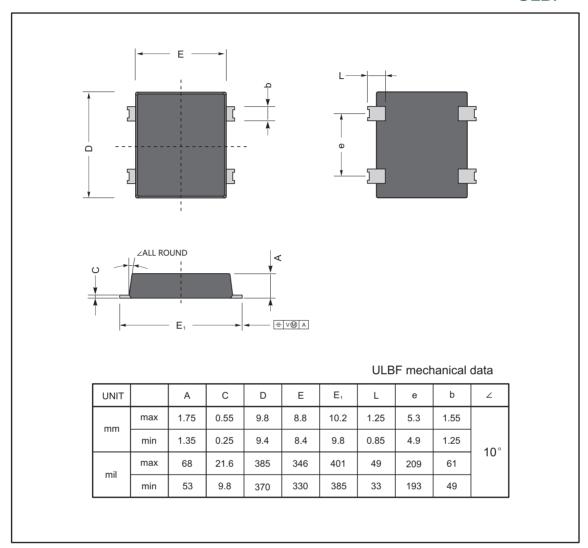




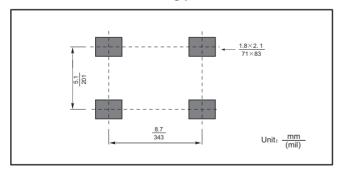
PACKAGE OUTLINE

Plastic surface mounted package; 4 leads

ULBF

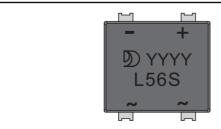


The recommended mounting pad size



Marking

Type number	Marking code
ULBFL56SM	L56S



MARKING DIAGRAM

- 1. L56S: Marking content;
- 2. YYYY: Four digit traceability code; 3. D: LOGO of Jingdao;
- 4. +: Anode symbol;
- 5. -: Cathode symbol;
- 6. ~: AC symbol;

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