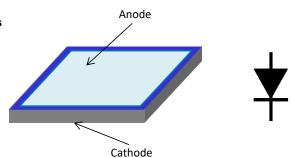
## YJ Planar Schottky Barrier Diode Die Specification

40V 0.5A, 23mil, Schottky barrier diode die based on silicon planar process

Part No.: PSB023L040AS-180A

## **Main Products Characterstics**

- Average forward current: IF(AV) = 0.5 A
- Maximum operating junction temperature: Tj = 125 °C
- ESD rating: >2KV, per IEC61000-4-2 (Contact Discharge)
- Top metal: AL



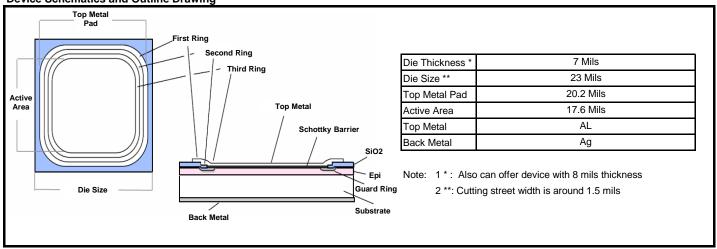
**Maximum Ratings** 

maximum ratings					
Parameter	Symbol	Rating			
Repetitive peak reverse voltage	$V_{RRM}$	40 V			
Average forward current	I <sub>F(AV)</sub>	0.5 A			
Non-repetitive peak surge current (tp = 8.3 ms, halfwave, 1 cycle)	I <sub>FSM</sub>	10 A			
Storage temperature range	$T_{stg}$	-50 to +125 °C			
Maximum operating junction temperature	Tj	125 °C			

Static Electrical Characteristics (Ta = 25°C)

Parameter	Symbol	Value	
		Spec	Typical
Reverse breakdown voltage $I_R = 0.1 \text{mA}$	$V_{BR}$	40 V	52V
Maximum forward voltage drop			
I <sub>F</sub> = 0.5A	$V_{F}$	0.53V	0.48V
Pulse Test: tp = 300 $\mu$ s, $\delta \leqslant 2\%$			
Maximum reverse current $V_R$ = 25V Pulse Test: tp = 300 $\mu$ s, $\delta \leqslant$ 2%	I <sub>R</sub>	50uA	10uA

**Device Schematics and Outline Drawing** 



## **Important Notice**

Specification apply to die only. Actual performance may degrade when assembled.

Yangjie Electronics does not guarantee device performance after assembly.

All operating parameters must be validated for each customer application by customer's technical experts.

Data sheet information is subjected to change without notice.

Recommended Storage Environment:

Store in original container, in dessicated nitrogen, with no contamination.

Shelf life for parts stored in above condition is 2 years.

If the storage is done in normal atmosphere shelf life is reduced to 6 months.

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