## YJ Planar Schottky Barrier Diode Die Specification

60V 100A, 250mil, Schottky barrier diode die based on silicon planar process

Part No.: PSB250M060AS-290A

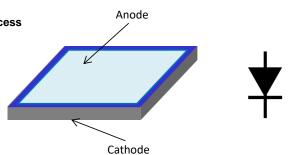
## **Main Products Characterstics**

• Average forward current: IF(AV) = 100A

• Maximum operating junction temperature: Tj = 150 °C

• ESD rating: >20KV, per IEC61000-4-2 (Contact Discharge)

• Top metal: AL



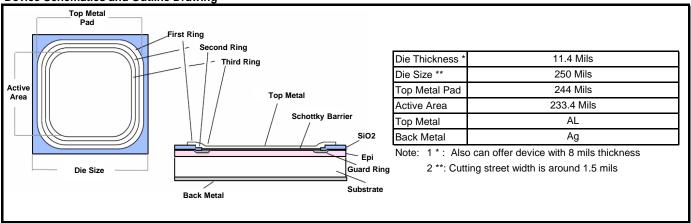
**Maximum Ratings** 

Parameter	Symbol	Rating	
Repetitive peak reverse voltage	$V_{RRM}$	60 V	
Average forward current	$I_{F(AV)}$	100A	
Non-repetitive peak surge current (tp = 8.3 ms, halfwave, 1 cycle)	I <sub>FSM</sub>	500 A	
Storage temperature range	T <sub>stg</sub>	-50 to +150 °C	
Maximum operating junction temperature	Tj	150 °C	

Static Electrical Characteristics (Ta = 25°C)

Parameter	Symbol	Value	
		Spec	Typical
Reverse breakdown voltage $I_R = 1 \text{mA}$	$V_{BR}$	65 V	75V
Maximum forward voltage drop			
I <sub>F</sub> = 100A	$V_{F}$	0.75V	0.65V
Pulse Test: tp = 300 $\mu$ s, $\delta \leqslant 2\%$			
Maximum reverse current $V_R = V_{RRM}$ Pulse Test: tp = 300 $\mu$ s, $\delta \leqslant 2\%$	I <sub>R</sub>	1mA	300uA

**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.

扬州扬杰电子科技股份有限公司

Yangzhou Yangjie Electronics Technology Co.,Ltd.

电话: 0514-80982389 传真: 0514-80980189

Rev.O 2021/07/28