## YJ Planar Schottky Barrier Diode Die Specification

150V 3A, 50mil, Schottky barrier diode die based on silicon planar process

Part No.: PSB050H150SS-280A

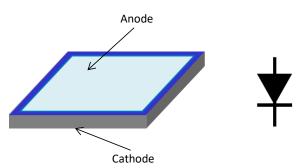
## **Main Products Characterstics**

• Average forward current: IF(AV) = 3 A

• Maximum operating junction temperature: Tj = 175 °C

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

· Top metal: Ag



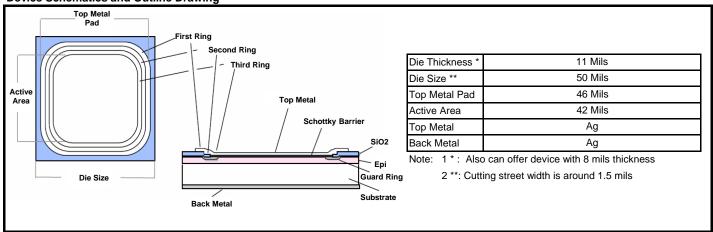
**Maximum Ratings** 

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Parameter	Symbol	Rating		
Repetitive peak reverse voltage	$V_{RRM}$	150 V		
Average forward current	I <sub>F(AV)</sub>	3 A		
Non-repetitive peak surge current (tp = 8.3 ms, halfwave, 1 cycle)	I <sub>FSM</sub>	80 A		
Storage temperature range	T <sub>stg</sub>	-50 to +175 °C		
Maximum operating junction temperature	T <sub>j</sub>	175 °C		

Static Electrical Characteristics (Ta = 25°C)

Parameter S	Symbol	Value	
		Spec	Typical
Reverse breakdown voltage $I_R = 1$ mA	$V_{BR}$	155 V	170V
Maximum forward voltage drop $I_F = \ 3 \ A$ Pulse Test: tp = 300 $\mu$ s, $\ \delta \leqslant 2\%$	V <sub>F</sub>	0.85V	0.83V
Maximum reverse current $V_R = V_{RRM}$ Pulse Test: tp = 300 $\mu$ s, $\delta \leqslant 2\%$	I <sub>R</sub>	5uA	0.2uA

**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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