# YJ Planar Schottky Barrier Diode Die Specification

60V 5A, 65mil, Schottky barrier diode die based on silicon planar process Part No.: PSB065M060SS-280A

## **Main Products Characterstics**

- Average forward current: IF(AV) = 5 A
- Maximum operating junction temperature: Tj = 150 °C
- ESD rating: >8KV, per IEC61000-4-2 (Contact Discharge)
- Top metal: Ag



### **Maximum Ratings**

Parameter	Symbol	Rating
Repetitive peak reverse voltage	V <sub>RRM</sub>	60 V
Average forward current	I <sub>F(AV)</sub>	5 A
Non-repetitive peak surge current (tp = 8.3 ms, halfwave, 1 cycle)	I <sub>FSM</sub>	120 A
Storage temperature range	T <sub>stg</sub>	-50 to +150 °C
Maximum operating junction temperature	T <sub>j</sub>	150 °C

#### Static Electrical Characteristics (Ta = 25°C)

Parameter Sy	Symbol	Value	
	Symbol	Spec	Typical
Reverse breakdown voltage I <sub>R</sub> = 1mA	$V_{BR}$	65 V	72V
Maximum forward voltage drop I <sub>F</sub> = 5 A Pulse Test: tp = 300 $\mu s, \ \delta \leqslant 2\%$	V <sub>F</sub>	0.65V	0.61V
Maximum reverse current $V_R = V_{RRM}$ Pulse Test: tp = 300 µs, $\delta \leq 2\%$	I <sub>R</sub>	50uA	15uA

#### **Device Schematics and Outline Drawing**



#### **Important Notice**

Specification apply to die only. Actual performance may degrade when assembled.	Recommended Storage Environment:	
<b>Yangjie Electronics</b> does not guarantee device performance after assembly. All operating parameters must be validated for each customer application by customer's technical experts.	Store in original container, in dessicated nitrogen, with no contamination.	
	Shelf life for parts stored in above condition is 2 years.	
Data sheet information is subjected to change without notice.	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	电话: 0514-80982389
Yangzhou Yangjie Electronics Technology Co.,Ltd.	传真: 0514-80980189

Yangzhou Yangjie Electronics Technology Co., Ltd.

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