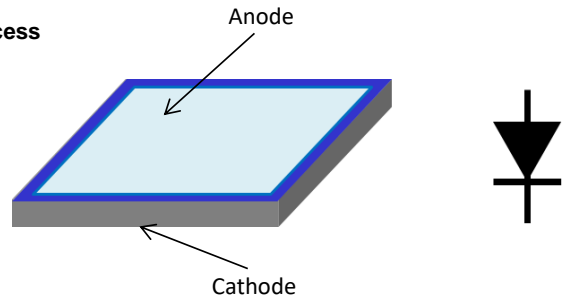


# YJ Planar Schottky Barrier Diode Die Specification

150V 30A, 122mil, Schottky barrier diode die based on silicon planar process  
Part No.: PSB122H150AS-280A

## Main Products Characteristics

- Average forward current:  $I_{F(AV)} = 30$
- Maximum operating junction temperature:  $T_j = 175\text{ }^\circ\text{C}$
- ESD rating: >2KV, per IEC61000-4-2 (Contact Discharge)
- Top metal: AL



## Maximum Ratings

Parameter	Symbol	Rating
Repetitive peak reverse voltage	$V_{RRM}$	150 V
Average forward current	$I_{F(AV)}$	30
Non-repetitive peak surge current ( $t_p = 8.3\text{ ms}$ , halfwave, 1 cycle)	$I_{FSM}$	220 A
Storage temperature range	$T_{stg}$	-50 to +175 $^\circ\text{C}$
Maximum operating junction temperature	$T_j$	175 $^\circ\text{C}$

## Static Electrical Characteristics ( $T_a = 25^\circ\text{C}$ )

Parameter	Symbol	Value	
		Spec	Typical
Reverse breakdown voltage $I_R = 1\text{ mA}$	$V_{BR}$	155 V	170V
Maximum forward voltage drop $I_F = 15\text{ A}$ Pulse Test: $t_p = 300\text{ }\mu\text{s}$ , $\delta \leq 2\%$	$V_F$	0.9V	0.86V
Maximum reverse current $V_R = V_{RRM}$ Pulse Test: $t_p = 300\text{ }\mu\text{s}$ , $\delta \leq 2\%$	$I_R$	3uA	0.4uA

## Device Schematics and Outline Drawing

Die Thickness *	11 Mils
Die Size **	122 Mils
Top Metal Pad	2*58.6*118 Mils
Active Area	2*53.8*113.4 Mils
Space between die	0.98 Mils
Top Metal	AL
Back Metal	Ag

Note: 1 \* : Also can offer device with 8 mils thickness  
2 \*\* : Cutting street width is around 1.5 mils

## Important Notice

<p>Specification apply to die only. Actual performance may degrade when assembled.</p> <p><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.</p> <p>Data sheet information is subjected to change without notice.</p>	<p>Recommended Storage Environment:</p> <p>Store in original container, in dessicated nitrogen, with no contamination.</p> <p>Shelf life for parts stored in above condition is 2 years.</p> <p>If the storage is done in normal atmosphere shelf life is reduced to 6 months.</p>
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