YJ Planar Schottky Barrier Diode Die Specification

100V 30A, 122mil, Schottky barrier diode die based on silicon planar process

Part No.: PSB122S100AS-290A

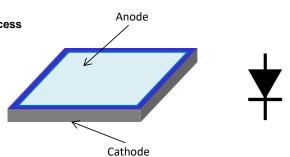
Main Products Characterstics

• Average forward current: IF(AV) = 30 A

• Maximum operating junction temperature: Tj = 175 °C

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

• Top metal: AL



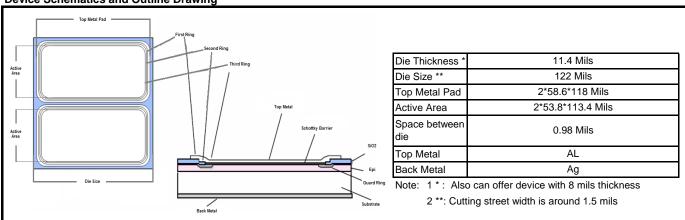
Maximum Ratings

ge					
Parameter	Symbol	Rating			
Repetitive peak reverse voltage	V_{RRM}	100 V			
Average forward current	$I_{F(AV)}$	30 A			
Non-repetitive peak surge current (tp = 8.3 ms, halfwave, 1 cycle)	I _{FSM}	220 A			
Storage temperature range	T _{stg}	-50 to +175 °C			
Maximum operating junction temperature	T _j	175 °C			

Static Electrical Characteristics (Ta = 25°C)

Otalio Electrical Charactericies (14 - 20 C)				
Parameter	Symbol	Value		
		Spec	Typical	
Reverse breakdown voltage $I_R = 1 \text{mA}$	V_{BR}	105 V	120V	
Maximum forward voltage drop				
I _F = 15A	V_{F}	0.85V	0.82V	
Pulse Test: tp = 300 μ s, $\delta \leqslant 2\%$				
Maximum reverse current $V_R = V_{RRM}$ Pulse Test to = 200 up \$\infty\$ 200	I _R	3uA	1uA	
Pulse Test: tp = 300 μ s, $\delta \le 2\%$				

Device Schematics and Outline Drawing



Important Notice

Specification apply to die only. Actual performance may degrade when assembled. $\label{eq:control}$

Yangije Electronics does not guarantee device performance after assembly.

All operating parameters must be validated for each customer application by customer 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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