

YJ Planar Schottky Barrier Diode Die Specification

40V 10A, 84mil, Schottky barrier diode die based on silicon planar process
Part No.: PSB084N040SS-280A

Main Products Characteristics

- Average forward current: $I_F(AV) = 10\text{ A}$
- Maximum operating junction temperature: $T_j = 125\text{ }^{\circ}\text{C}$
- ESD rating: >8KV, per IEC61000-4-2 (Contact Discharge)
- Top metal: Ag

Maximum Ratings

Rating
Reverse breakdown voltage I_R
$I_F = 10\text{ A}$
Pulse Test: $t_p = 300\text{ }\mu\text{s}$, $\delta \leq 2\%$
Maximum reverse current $V_R = V_{RRM}$
Pulse Test: $t_p = 300\text{ }\mu\text{s}$, $\delta \leq 2\%$

Static Electrical Characteristics (Ta = 25°C)

Parameter	Symbol
Reverse breakdown voltage I_R	V_{BR}
$I_F = 10\text{ A}$	
Pulse Test: $t_p = 300\text{ }\mu\text{s}$, $\delta \leq 2\%$	
Maximum reverse current $V_R = V_{RRM}$	I_R
Pulse Test: $t_p = 300\text{ }\mu\text{s}$, $\delta \leq 2\%$	

Device Schematics and Outline Drawing

Die Thickness *	
Die Size **	84 Mils
Top Metal Pad	
Active Area	
Top Metal	
Back Metal	Ag
Note: 1 *: Also can offer device with 8 mils thickness	
2 **: Cutting street width is around 1.5 mils	

Important Notice

Specification apply to die only. Actual performance may degrade when assembled.	Recommended Storage Environment:
YangjieElectronics 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.
Data sheet information is subjected to change without notice.	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.