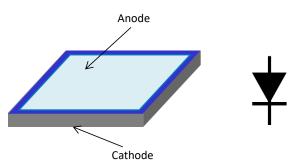
YJ Planar Schottky Barrier Diode Die Specification

20V 0.5A, 25mil, Schottky barrier diode die based on silicon planar process

Part No.: PSB025L020AS-180A

Main Products Characterstics

- Average forward current: IF(AV) = 0.5 A
- Maximum operating junction temperature: Tj = 125 °C
- Top metal: AL



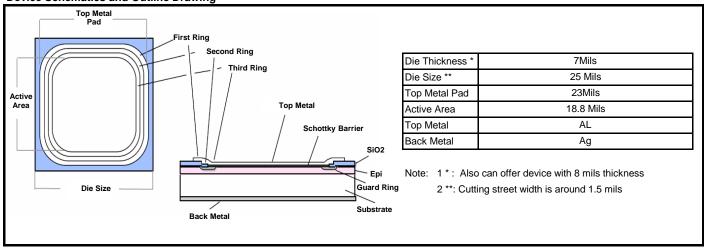
Maximum Ratings

Parameter	Symbol	Rating	
Repetitive peak reverse voltage	V_{RRM}	20 V	
Average forward current	$I_{F(AV)}$	0.5 A	
Non-repetitive peak surge current (tp = 8.3 ms, halfwave, 1 cycle)	I _{FSM}	10 A	
Storage temperature range	T_{stg}	-50 to +125 °C	
Maximum operating junction temperature	T _j	125 °C	

Static Electrical Characteristics (Ta = 25°C)

Static Electrical Characteristics	31103 (1a = 23 0)			
Parameter	Symbol	Value		
		Spec	Typical	
Reverse breakdown voltage $I_R = 1$ mA	V_{BR}	20 V	36V	
Maximum forward voltage drop $I_F = 0.5A$ Pulse Test: tp = 300 μ s, $\delta \leqslant 2\%$	V _F	0.44V	0.42V	
Maximum reverse current V_R = 20V Pulse Test: tp = 300 µs, $\delta \leqslant$ 2%	I _R	150uA	5uA	

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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