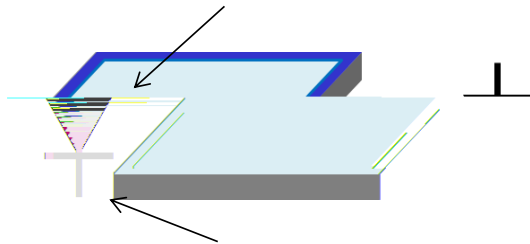


# YJ Planar Schottky Barrier Diode Die Specification

15V 40A, 230mil, Schottky barrier diode die based on silicon planar process  
Part No.: PSB230L015AS-290A

## Main Products Characterstics



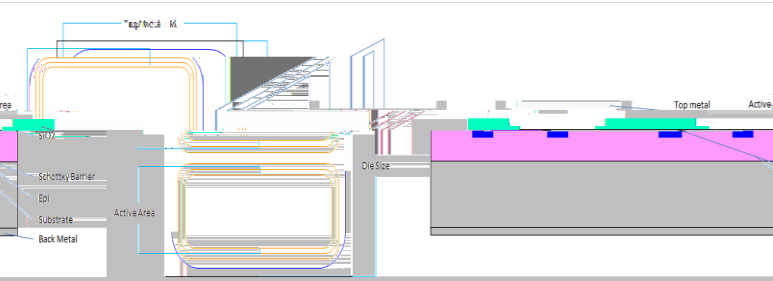
### Maximum Ratings

| Parameter                                               | Symbol      | Rating         |
|---------------------------------------------------------|-------------|----------------|
| Repetitive peak reverse voltage                         | $V_{RRM}$   | 15 V           |
| Average forward current                                 | $I_{F(AV)}$ | 40A            |
| current<br>( $t_p = 8.3\text{ ms}$ , halfwave, 1 cycle) | $I_{FSM}$   | 120 A          |
| Storage temperature range                               | $T_{stg}$   | -50 to +125 °C |
| Maximum operating junction temperature                  | $T_j$       | 125 °C         |

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

| Parameter                                                        | Symbol   | Value |         |
|------------------------------------------------------------------|----------|-------|---------|
|                                                                  |          | Spec  | Typical |
| Reverse breakdown voltage<br>$I_R = 1\text{mA}$                  | $V_{BR}$ | 15V   | 34V     |
| Maximum forward voltage drop<br>$I_F = 40\text{A}$<br>$\leq 2\%$ | $V_F$    | 0.5V  | 0.42V   |
| Maximum reverse current<br>$V_R = 15\text{V}$<br>$\leq 2\%$      | $I_R$    | 5mA   | 100uA   |

### Device Schematics and Outline Drawing



|                 |              |
|-----------------|--------------|
| Die Thickness * | 11.4 Mils    |
| Die Size **     | 230 Mils     |
| Top Metal Pad   | 227*112 Mils |
| Active Area     | 218*105 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

|                                                                                                                                                                                                                                                                                                                                |                                                                                                                                                                                                                                                                             |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Specification apply to die only. Actual performance may degrade when assembled.<br><br>does not guarantee device performance after assembly.<br>All operating parameters must be validated for each customer application by customer's technical experts.<br><br>Data sheet information is subjected to change without notice. | Recommended Storage Environment:<br><br>Store in original container, in dessicated nitrogen, with no contamination.<br><br>Shelf life for parts stored in above condition is 2 years.<br><br>If the storage is done in normal atmosphere shelf life is reduced to 6 months. |
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