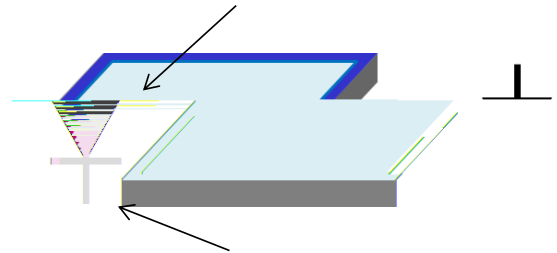


# YJ Planar Schottky Barrier Diode Die Specification

200V 3A, 50mil, Schottky barrier diode die based on silicon planar process  
 Part No.: PSB050H200SS-280A



## Main Products Characteristics

### Maximum Ratings

| Parameter                              | Symbol      | Rating         |
|--|-------------|----------------|
| Repetitive peak reverse voltage        | $V_{RRM}$   | 200 V          |
| Average forward current                | $I_{F(AV)}$ | 3 A            |
| ( $t_p = 8.3$ ms, halfwave, 1 cycle)   | $I_{FSM}$   | 80 A           |
| Storage temperature range              | $T_{stg}$   | -50 to +175 °C |
| Maximum operating junction temperature | $T_j$       | 175 °C         |

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

| Parameter   | Symbol   | Value |         |
|---|----------|-------|---------|
|   |          | Spec  | Typical |
| Reverse breakdown voltage<br>$I_R = 1\text{mA}$   | $V_{BR}$ | 210 V | 230V    |
| Maximum forward voltage drop<br>$I_F = 3\text{A}$ | $V_F$    | 0.88V | 0.84V   |
|   |          | 2%    |         |
| Maximum reverse current<br>$V_R = V_{RRM}$        | $I_R$    | 5uA   | 0.1uA   |
|   |          | 2%    |         |

## Device Schematics and Outline Drawing

|                 |         |
|-----------------|---------|
| Die Thickness * | 11 Mils |
| Die Size **     | 55 Mils |
| Top Metal Pad   | 50 Mils |
| Active Area     | 46 Mils |
| Top Metal       | Ag      |
| 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>does not guarantee device performance after assembly.</p> <p>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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