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|------------------------------|---------|------------------------|
| SANYO | No.5683 | SB05-18V |
| | | Schottky Barrier Diode |
| 180V, 500mA Rectifier | | |

Applications

- High frequency rectification (switching regulators, converters, choppers).

Features

- Low forward voltage (V_F max = 0.85V).
- Fast reverse recovery time (t_{rr} max = 20ns).
- Low switching noise.
- Low leakage current and high reliability due to highly reliable planar structure.

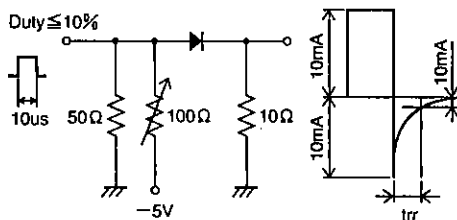
Absolute Maximum Ratings at $T_a = 25^\circ\text{C}$

| | | | unit |
|---|-----------|-------------|------------------|
| Repetitive Peak Reverse Voltage | V_{RRM} | 180 | V |
| Non-repetitive Peak Reverse Surge Voltage | V_{RSM} | 190 | V |
| Average Output Current | I_O | 500 | mA |
| Surge Forward Current | I_{FSM} | 10 | A |
| Junction Temperature | T_j | 125 | $^\circ\text{C}$ |
| Storage Temperature | T_{stg} | -55 to +125 | $^\circ\text{C}$ |

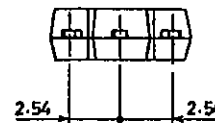
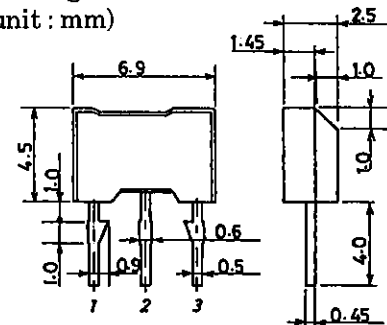
*50Hz resistive load, $T_a = 26^\circ\text{C}$
50Hz sine wave, 1 cycle*

Electrical Characteristics at $T_a = 25^\circ\text{C}$

| | | | min | typ | max | unit |
|---------------------------|---------------|-------------------------------------|-----|-----|------|--------------------|
| Reverse Voltage | V_R | $I_R = 500\mu\text{A}$ | 180 | | | V |
| Forward Voltage | V_F | $I_F = 500\text{mA}$ | | | 0.85 | V |
| Reverse Current | I_R | $V_R = 90\text{V}$ | | | 60 | μA |
| Interterminal Capacitance | C | $V_R = 10\text{V}, f = 1\text{MHz}$ | | 45 | | pF |
| Reverse Recovery Time | t_{rr} | $I_F = I_R = 100\text{mA}$ | | | 20 | ns |
| Thermal Resistance | $R_{th\ j-a}$ | See specified Test Circuit. | | | 110 | $^\circ\text{C/W}$ |

 t_{rr} Test Circuit**Package Dimensions 1289**

(unit : mm)

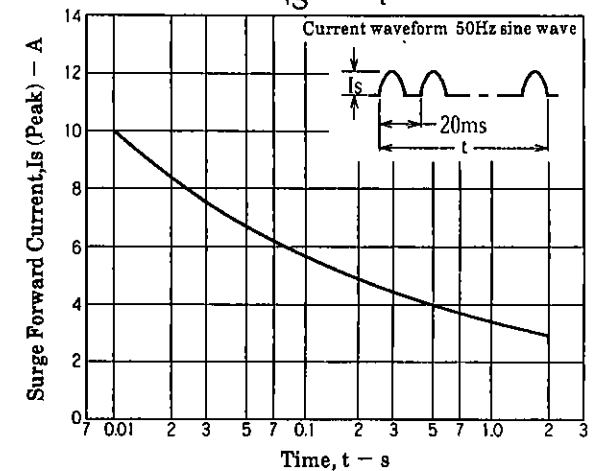
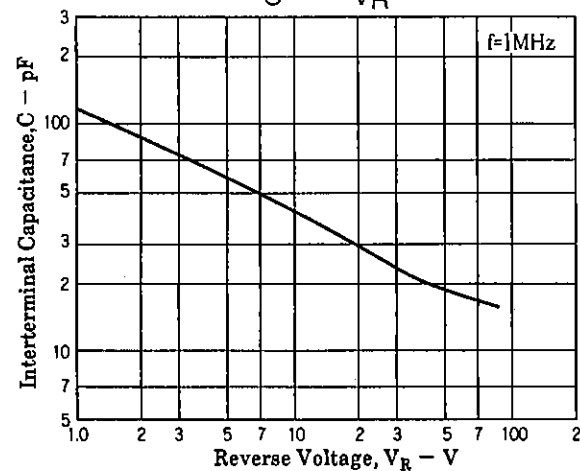
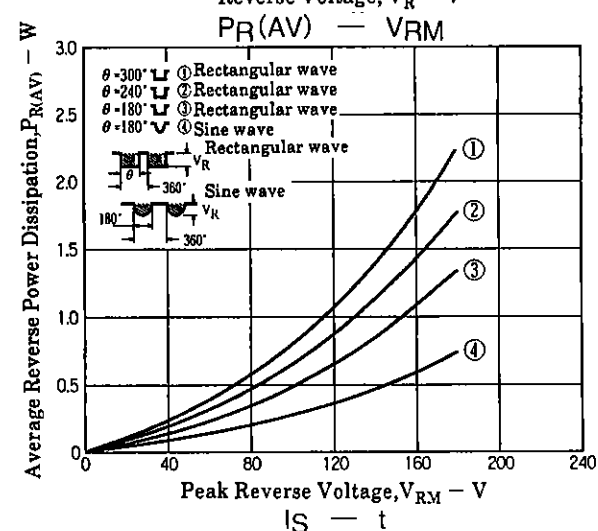
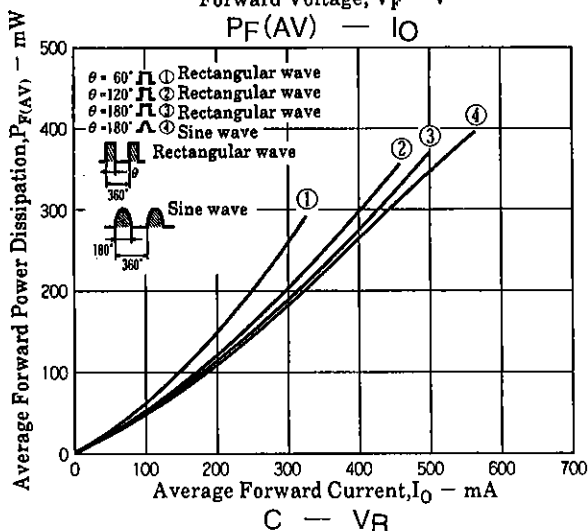
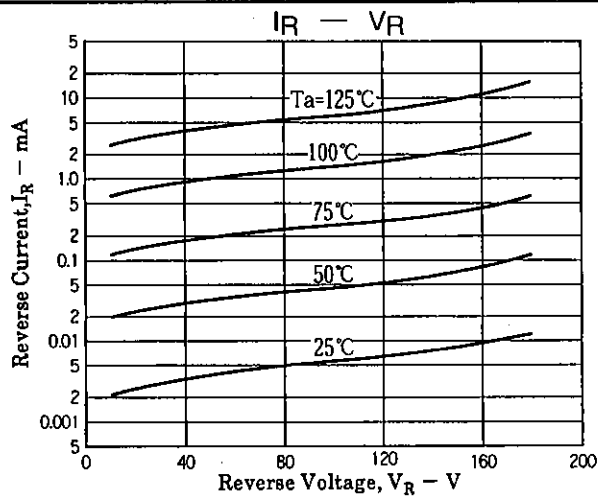
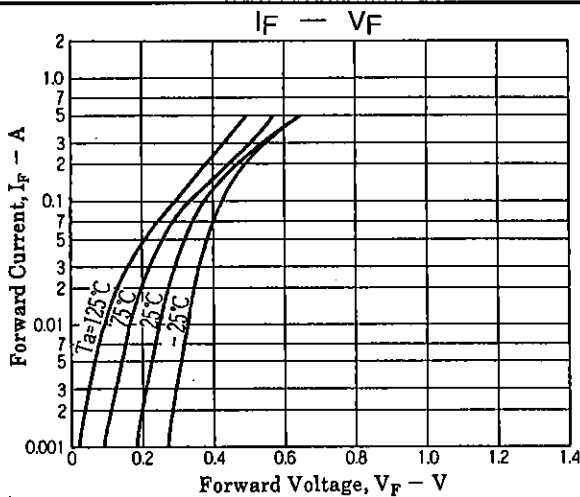


1: Anode
2: Cathode
3: No Contact

SANYO : NMP

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