

SB160-09

Schottky Barrier Diode (Twin Type - Cathode Common)

90V, 16A Rectifier

Applications

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

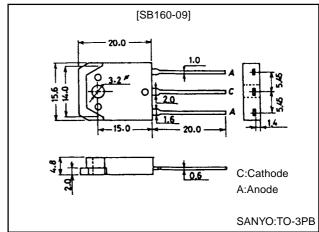
Features

- · Low forward voltage (V_F max=0.85V).
- · Fast reverse recovery time (trr max=50ns).
- · Low switching noise.
- · Low leakage current and high reliability due to highly reliable planar structure.

Package Dimensions

unit:mm

1160



Specifications

Absolute Maximum Ratings at Ta = 25°C

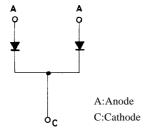
| Parameter | Symbol | Conditions | Ratings | Unit |
|--|------------------|-------------------------------|-----------------|------|
| Repetitive Peak Reverse Voltage | V _{RRM} | | -90 | V |
| Nonrepetitive Peak Reverse Surge Voltage | VRSM | | - 95 | V |
| Average Output Current | IO | 50Hz, resistive load, Tc=94°C | 16 | А |
| Surge Forward Current | I _{FSM} | 50Hz sine wave, 1 cycle | 100 | Α |
| Junction Temperature | Tj | | -55 to +125 | °C |
| Storage Temperature | Tstg | | -55 to +125 | °C |

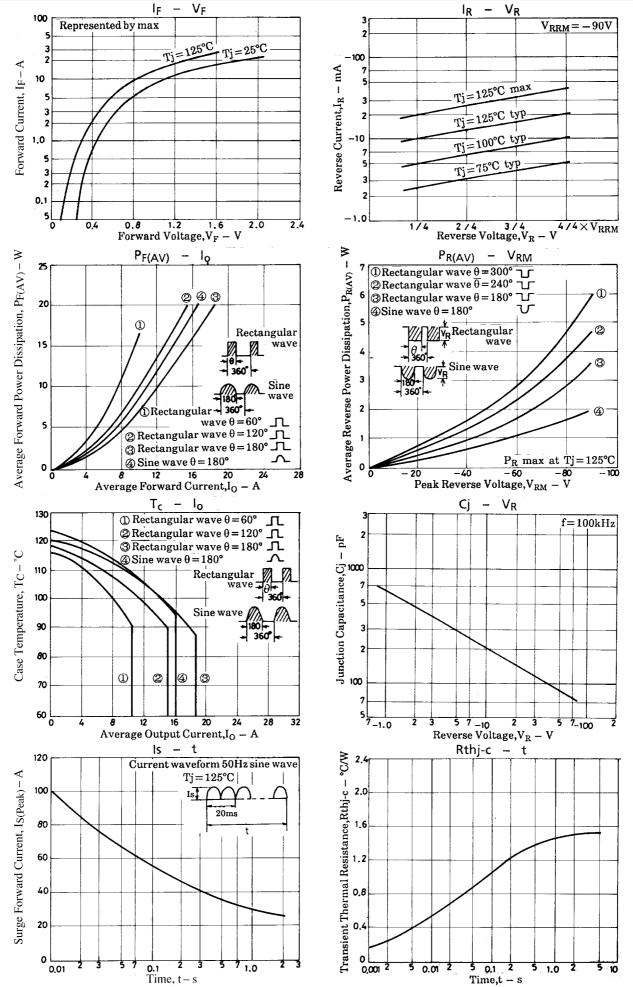
Electrical Characteristics

| Parameter | Symbol | Conditions | Ratings | | | Unit |
|-----------------------|----------------|---|---------|-----|------|-------|
| | | | min | typ | max | Offic |
| Reverse Voltage | ٧ _R | I _R =-3mA, Tj=25°C* | -90 | | | V |
| Forward Voltage | ٧F | I _F =6A, Tj=25°C* | | | 0.85 | V |
| Reverse Current | I _R | V _R =-45V, Tj=25°C* | | | -0.6 | mA |
| Reverse Recovery Time | trr | I _F =2A, Tj=25°C*, -dI _F /dt=10A/μs | | | 50 | ns |
| Thermal Resistance | Rthj-c | Junction-Case:Smoothed DC | | | 1.5 | °C/W |

Note)*:Value per element

Electrical Connection





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