Ordering number: ENN6292

Schottky Barrier Diode



SBE001

30V, 2A Rectifier

Applications

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

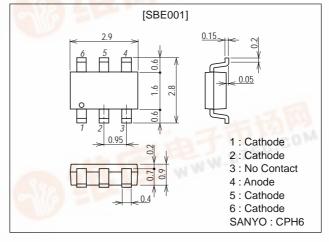
Features

- · Low forward voltage (V_F max=0.55V).
- · Fast reverse recovery time (t_{rr} max=20ns).
- · Low switching noise.
- · Low leakage current and high reliability due to highly reliable planar structure.
- · Ultrasmall-sized package, permitting SBE001applied sets to be compact and slim (0.9mm).

Package Dimensions

unit:mm

1295



Specifications

Absolute Maximum Ratings at Ta = 25°C

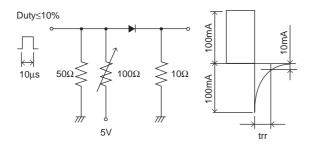
| Parameter | Symbol | Conditions | Ratings | Unit | |
|--|------------------|-------------------------|-------------|------|--|
| Repetitive Peak Reverse Voltage | V _{RRM} | | 30 | | |
| Nonrepetitive Peak Reverse Surge Voltage | V _{RSM} | | 35 | V | |
| Average Output Current | Io | pal . | 2 | А | |
| Surge Forward Current | IFSM | 50Hz sine wave, 1 cycle | 20 | Α | |
| Junction Temperature | Tj | 1 1 TO THE THE | -55 to +125 | °C | |
| Storage Temperature | Tstg | AND ALTER VENEZIONE W | -55 to +125 | °C | |

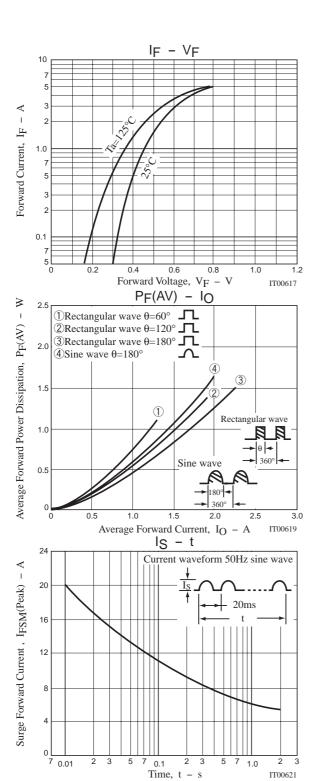
Electrical Characteristics at $Ta = 25^{\circ}C$

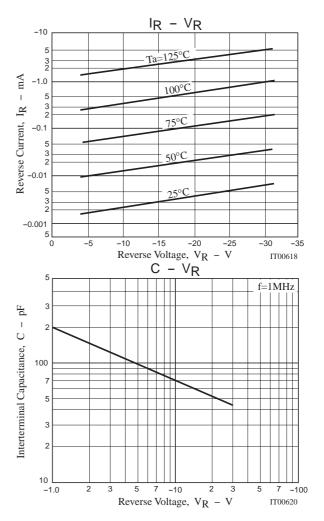
| Parameter | Symbol | Conditons | | Ratings | | |
|---------------------------|-----------------|--|-------|---------|------|------|
| | Symbol | | min | typ | max | Unit |
| Reverse Voltage | VR | I _R =500μA | 30 | | | V |
| Forward Voltage | V _F | I _F =2A | | | 0.55 | V |
| Reverse Current | IR | V _R =15V | | | 100 | μΑ |
| Interterminal Capacitance | С | V _R =10V, f=1MHz | | 70 | | pF |
| Reverse Recovery Time | t _{rr} | I _F =I _R =100mA, See specified Test Circuit. | | 55 | 20 | ns |
| Thermal Resistance | Rth(j-a) | Mounted on a ceramic board (600mm²×0.8mm) | | 110 | | °C/W |
| Marking : SA | · | / 杜丽 | THE W | | 50. | |

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t_{rr} Test Circuit







SBE001

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