

SB007W03C

Schottky Barrier Diode (Twin Type - Cathode Common)

30V, 70mA Rectifier

Applictions

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

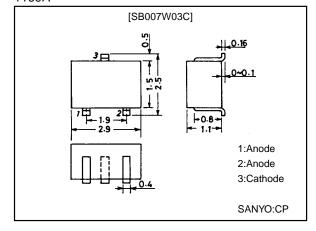
Features

- · Low forward voltage (V_F max=0.55V).
- · Fast reverse recovery time (t_{rr} max=10ns).
- · Low switching noise.
- · Low leakage current and high reliablity due to highly reliable planar structure.

Package Dimensions

unit:mm

1169A



Specifications

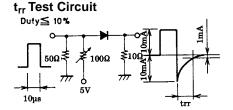
Absolute Maximum Ratings at Ta = 25°C

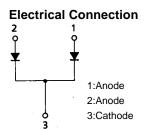
| Parameter | Symbol | Conditions | Ratings | Unit |
|---|------------------|-------------------------|-------------|------|
| Repetitive Peak Reverse Voltage | VRRM | | 30 | V |
| Non-repetitive Peak Reverse Surge Voltage | V _{RSM} | | 35 | V |
| Average Output Current | I _O | | 70 | mA |
| Surge Forward Current | I _{FSM} | 50Hz sine wave, 1 cycle | 2 | Α |
| Junction Temperature | Tj | | -55 to +125 | °C |
| Storage Temperature | Tstg | | -55 to +125 | °C |

Electrical Characteristics at Ta = 25°C

| Parameter | Symbol | Conditions | Ratings | | | Unit |
|---------------------------|------------------------|--|---------|-----|------|-------|
| | Symbol | | min | typ | max | Offic |
| Reverse Voltage | V _R | I _R =20μA | 30 | | | V |
| Forward Voltage | VF | I _F =70mA | | | 0.55 | V |
| Reverse Current | I _R | V _R =15V | | | 5 | μA |
| Interterminal Capacitance | С | V _R =10V, f=1MHz | | 3.0 | | pF |
| Reverse Recovery Time | t _{rr} | I _F =I _R =10mA, See specified Test Circuit | | | 10 | ns |
| Thermal Resistance (1) | R _{th(j-a)} 1 | | | 620 | | °C/W |
| Thermal Resistance (2) | R _{th(j-a)} 2 | Mounted on Cu-foild area of 16mm²×0.2mm on glass epoxy board | | 430 | | °C/W |

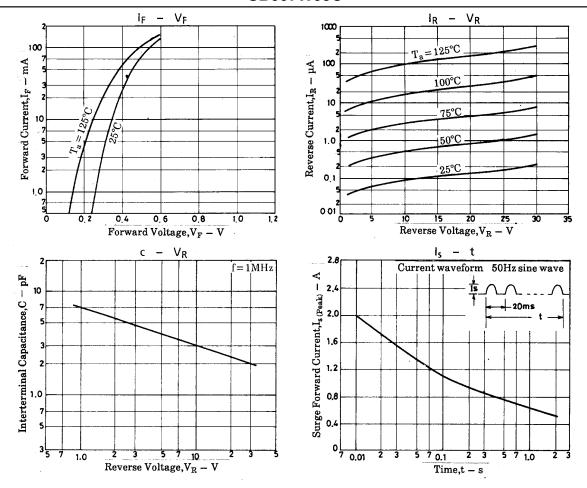
Marking: K





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