

SB05W05V

50V, 500mA Rectifier

Applications

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

Features

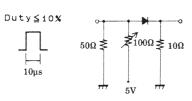
- Low forward voltage (VF max=0.55V).
- Fast reverse recovery time (trr max=10ns).
- Low switching noise.
- Low leakage current and high reliability due to highly reliable planar structure.

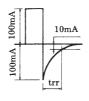
Absolute Maximum Ratings at Ta=25°C (Value per element) unit Repetitive Peak Reverse Voltage **VRRM** 50 55 V Nonrepetitive Peak Reverse **VRSM** Surge Voltage Average Output Current Io 500 mΑ Surge Forward Current 50Hz sine wave, 1 cycle 5 **IFSM** A °C Junction Temperature -55 to +125Τį -55 to +125°C Storage Temperature Tstg **Electrical Characteristics** at Ta=25°C (Value per element) min unit max typ Reverse Voltage V_R $I_R=200\mu A$ 50 V Forward Voltage V_{F} I_F=500mA 0.55 V Reverse Current IR $V_R=25V$ 50 μΑ Interterminal Capacitance $V_R=10V$, f=1MHz25 C pF Reverse Recovery Time $I_F=I_R=100\text{mA}$, 10 trr ns

See specified Test Circuit.

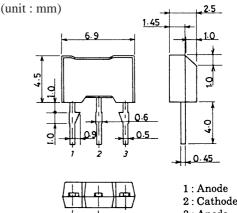
trr Test Circuit

Thermal Resistance

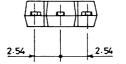




Package Dimensions 1148A



120

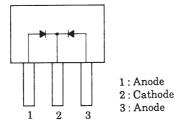


2: Cathode 3: Anode

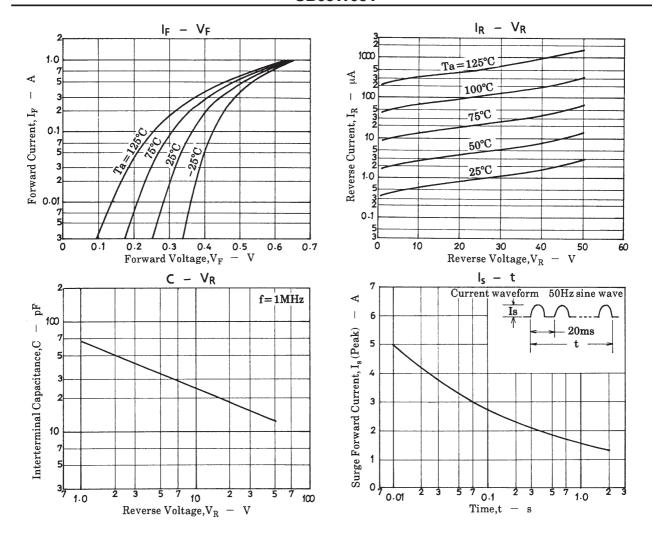
°C/W

SANYO: NMP

Erectrical Connection



Rthj-a



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