

**SB30-03T** 

**Schottky Barrier Diode** 

# 30V, 3A Rectifier

## **Applications**

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

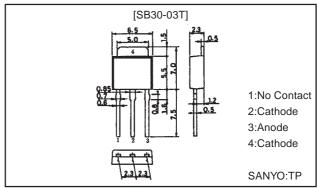
### **Features**

- · Low forward voltage ( $V_F$  max=0.55V).
- · Fast reverse recovery time (trr max=30ns).
- · Low switching noise.
- · Low leakage current and high reliability due to highly reliable planar structure.

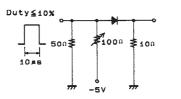
# **Package Dimensions**

unit:mm

1255A

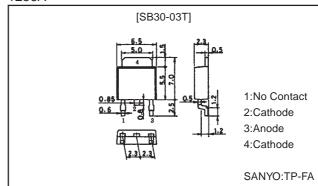


#### trr Test Circuit





1256A



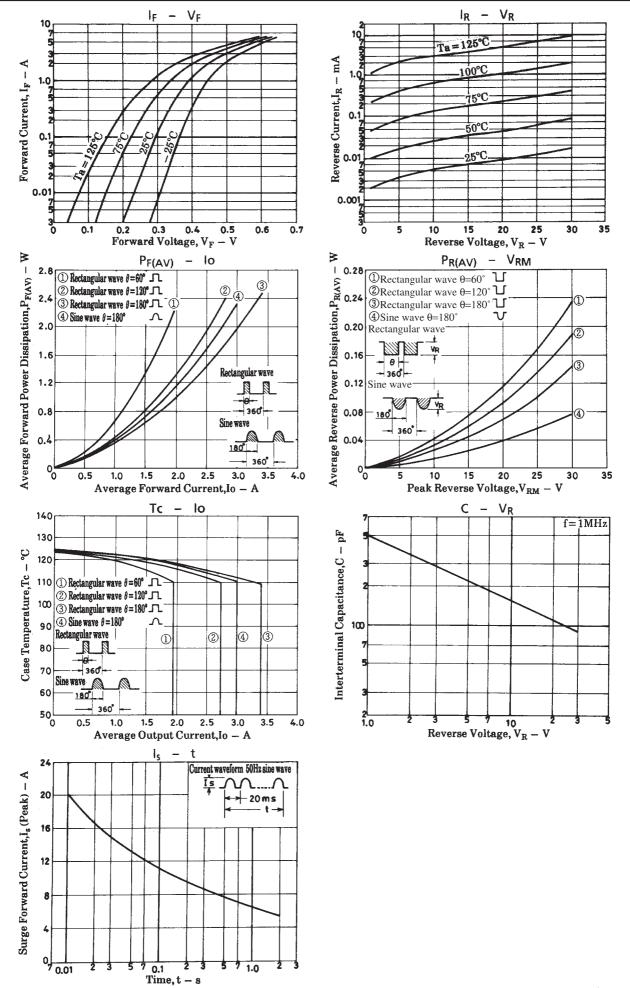
### **Specifications**

Absolute Maximum Ratings at Ta = 25°C

Parameter	Symbol	Conditions	Ratings	Unit
Repetitive Peak Reverse Voltage	V <sub>RRM</sub>		30	V
Nonrepetitive Peak Reverse Surge Voltage	V <sub>RSM</sub>		35	V
Average Output Current	I <sub>O</sub>	50Hz, resistive load, Tc=110°C	3	Α
Surge Forward Current	IFSM	50Hz sine wave, 1 cycle	20	Α
Junction Temperature	Tj		-55 to +125	°C
Storage Temperature	Tstg		-55 to +125	°C

#### Electrical Characteristics at Ta = 25°C

Parameter		Conditons	Ratings			Unit
	Symbol		min	typ	max	
Reverse Voltage	V <sub>R</sub>	I <sub>R</sub> =1mA	30			V
Forward Voltage	٧F	I <sub>F</sub> =3A			0.55	V
Reverse Current	IR	V <sub>R</sub> =15V			200	μA
Interterminal Capacitance	С	V <sub>R</sub> =10V, f=1MHz		160		pF
Reverse Recovery Time	trr	I <sub>F</sub> =I <sub>R</sub> =300mA, See sepcified Test Circuit			30	ns
Thermal Resistance (Junction-Ambient)	Rth(j-a)			90		°C/W
Thermal Resistance (Junction-Case)	Rthj(j-c)			6		°C/W



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