

**SB20-03E** 

**Schottky Barrier Diode** 

# 30V, 2A Rectifier

## **Applications**

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

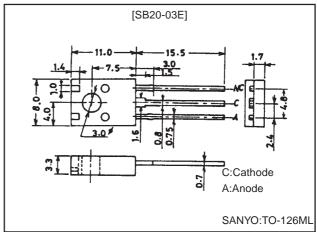
### **Features**

- · Low forward voltage ( $V_F$  max=0.55V).
- · Fast reverse recovery time (trr max=20ns).
- · Low switching noise.
- · Low leakage current and high reliability due to highly reliable planar structure.

# **Package Dimensions**

unit:mm

1217



### **Specifications**

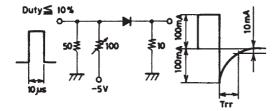
#### Absolute Maximum Ratings at Ta = 25°C

Parameter	Symbol	Conditions	Ratings	Unit
Repetitive Peak Reverse Voltage	V <sub>RRM</sub>		30	V
Nonrepetitive Peak Reverse Surge Voltage	VRSM		35	V
Average Output Current	I <sub>O</sub>	50Hz, resistive load, Ta=113°C	2	Α
Surge Forward Current	I <sub>FSM</sub>	50Hz sine wave, 1 cycle	20	Α
Junction Temperature	Tj		-55 to +125	°C
Storage Temperature	Tstg		-55 to +125	°C

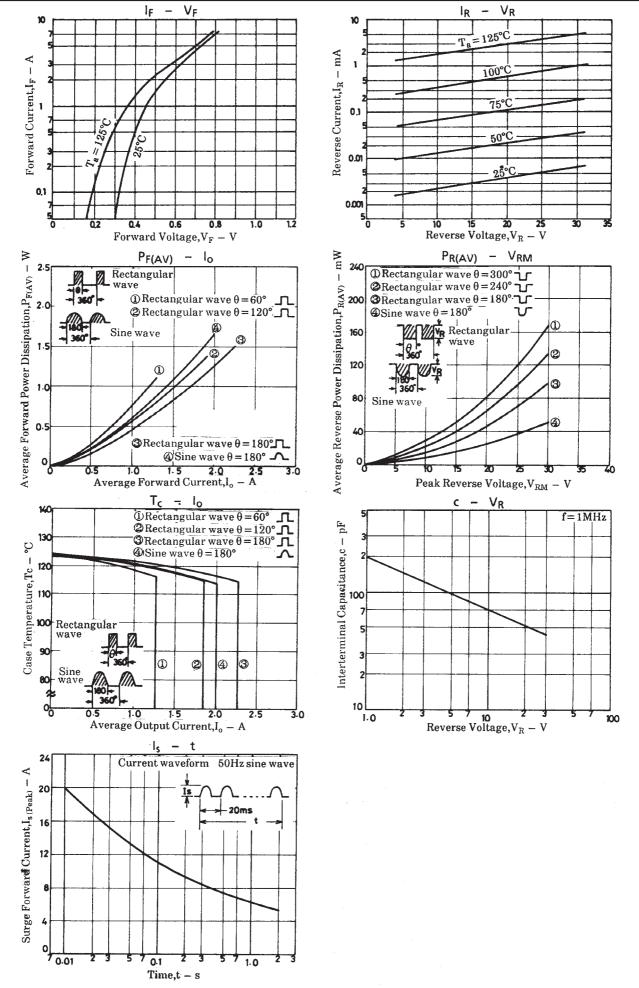
#### Electrical Characteristics at Ta = 25°C

Parameter	Symbol	Conditons	Ratings			Unit
			min	typ	max	Onn
Reverse Voltage	$V_{R}$	I <sub>R</sub> =500μA	30			V
Forward Voltage	٧ <sub>F</sub>	I <sub>F</sub> =2A			0.55	V
Reverse Current	I <sub>R</sub>	V <sub>R</sub> =15V			100	μA
Interterminal Capacitance	С	V <sub>R</sub> =10V, f=1MHz		70		pF
Reverse Recovery Time	trr	I <sub>F</sub> =I <sub>R</sub> =100mA, See sepcified Test Circuit			20	ns
Thermal Resistance	Rthj-c	Junction-Case:Smoothed DC		7		°C/W

#### trr Test Circuit



Unit (resistance:Ω)



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