

SB20-03E

Schottky Barrier Diode

30V, 2A Rectifier

Applications

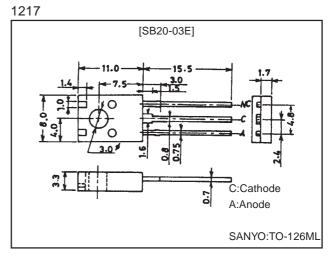
• High frequency rectification (switching regulators, converters, choppers).

Features

- · Low forward voltage (V_F max=0.55V).
- \cdot 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



Specifications

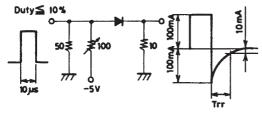
Absolute Maximum Ratings at Ta = 25°C

Parameter	Symbol	Conditions	Ratings	Unit
Repetitive Peak Reverse Voltage	V _{RRM}		30	V
Nonrepetitive Peak Reverse Surge Voltage	VRSM		35	V
Average Output Current	lo	50Hz, resistive load, Ta=113°C	2	A
Surge Forward Current	IFSM	50Hz sine wave, 1 cycle	20	A
Junction Temperature	Tj		-55 to +125	°C
Storage Temperature	Tstg		-55 to +125	°C

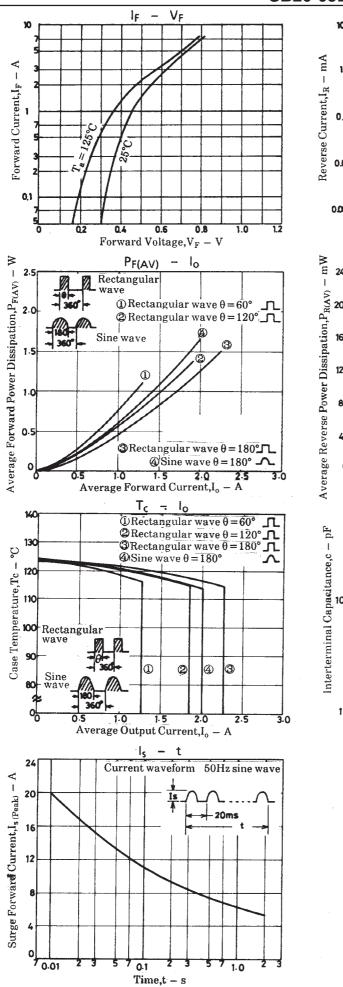
Electrical Characteristics at $Ta = 25^{\circ}C$

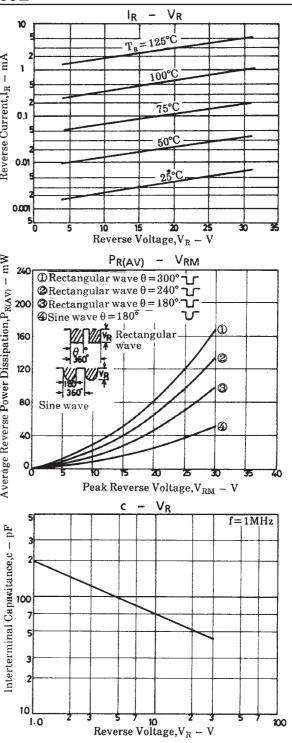
Parameter	Symbol	Conditons	Ratings			Unit
			min	typ	max	
Reverse Voltage	VR	I _R =500μA	30			V
Forward Voltage	V _F	I _F =2A			0.55	V
Reverse Current	IR	V _R =15V			100	μA
Interterminal Capacitance	С	V _R =10V, f=1MHz		70		pF
Reverse Recovery Time	trr	IF=IR=100mA, See sepcified Test Circuit			20	ns
Thermal Resistance	Rthj-c	Junction-Case:Smoothed DC		7		°C/W

trr Test Circuit



Unit (resistance: Ω)





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