

SBE001

30V, 2A Rectifier

Applications

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

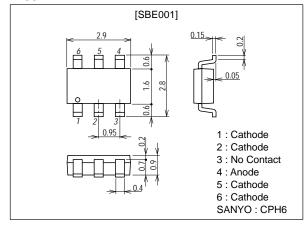
Features

- · Low forward voltage (V_F max=0.55V).
- · Fast reverse recovery time (t_{rr} max=20ns).
- · Low switching noise.
- · Low leakage current and high reliability due to highly reliable planar structure.
- · Ultrasmall-sized package, permitting SBE001-applied sets to be compact and slim (0.9mm).

Package Dimensions

unit:mm

1295



Specifications

Absolute Maximum Ratings at $Ta = 25^{\circ}C$

Parameter	Symbol	Conditions	Ratings	Unit
Repetitive Peak Reverse Voltage	VRRM		30	V
Nonrepetitive Peak Reverse Surge Voltage	V _{RSM}		35	V
Average Output Current	IO		2	Α
Surge Forward Current	I _{FSM}	50Hz sine wave, 1 cycle	20	Α
Junction Temperature	Tj		-55 to +125	°C
Storage Temperature	Tstg		-55 to +125	°C

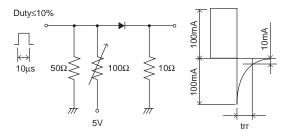
Electrical Characteristics at Ta = 25°C

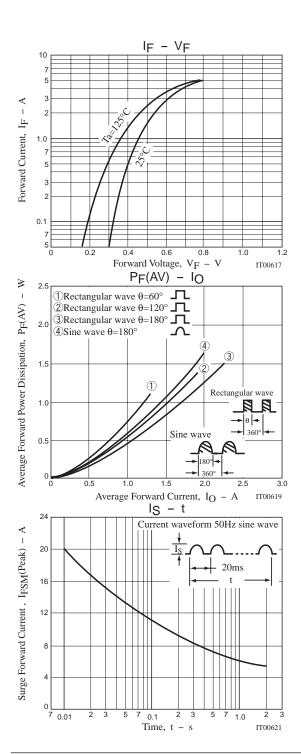
Parameter	Symbol	Conditons	Ratings			Unit
			min	typ	max	Oille
Reverse Voltage	v_R	I _R =500μA	30			V
Forward Voltage	٧F	I _F =2A			0.55	V
Reverse Current	I _R	V _R =15V			100	μA
Interterminal Capacitance	С	V _R =10V, f=1MHz		70		pF
Reverse Recovery Time	t _{rr}	I _F =I _R =100mA, See specified Test Circuit.			20	ns
Thermal Resistance	Rth(j-a)	Mounted on a ceramic board (600mm ² ×0.8mm)		110		°C/W

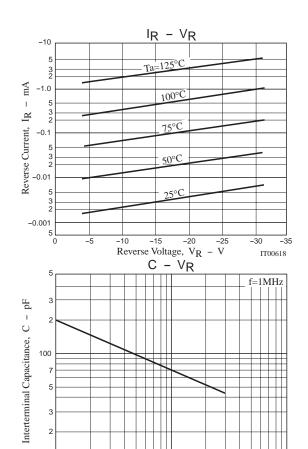
Marking: SA

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t_{rr} Test Circuit







 $\frac{5}{7}$ $\frac{7}{-10}$ $\frac{2}{10}$ $\frac{3}{10}$ Reverse Voltage, $\frac{3}{10}$ $\frac{3}{10}$

10 L -1.0

IT00620

SBE001

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