



30V, 0.5A Rectifier

Applications

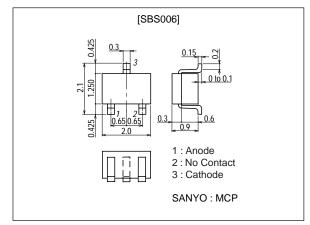
 High frequency rectification (switching regulators, converters and choppers).

Features

- Low forward voltage (IF=0.3A, VF max=0.4V) (IF=0.5A, VF max=0.47V).
- Ultrasmall-sized package, permitting SBS006-applied sets to be compact and slim.

Package Dimensions

unit : mm 1197A



Specifications

Absolute Maximum Ratings at Ta=25°C

Parameter	Symbol	Conditions	Ratings	Unit
Repetitive Peak Reverse Voltage	VRRM		30	V
Nonrepetitive Peak Reverse Surge Voltage	VRSM		30	V
Average Output Current	IO		0.5	Α
Surge Forward Current	IFSM	50Hz sine wave, 1 cycle	10	Α
Junction Temperature	Tj		-55 to +125	°C
Storage Temperature	Tstg		-55 to +125	°C

Electrical Characteristics at Ta=25°C

Parameter	Committee	Conditions	Ratings			Unit
	Symbol		min	typ	max	Unit
Reverse Voltage	VR	IR=0.5mA	30			V
Forward Voltage	V _F 1	I _F =0.3A		0.35	0.40	V
	V _F 2	I _F =0.5A		0.42	0.47	V
Reverse Current	IR	V _R =10V			200	μΑ
Interterminal Capacitance	С	V _R =10V, f=1MHz		20		pF
Reverse Recovery Time	t _{rr}	IF=IR=100mA, See specified Test Circuit.			10	ns

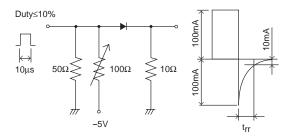
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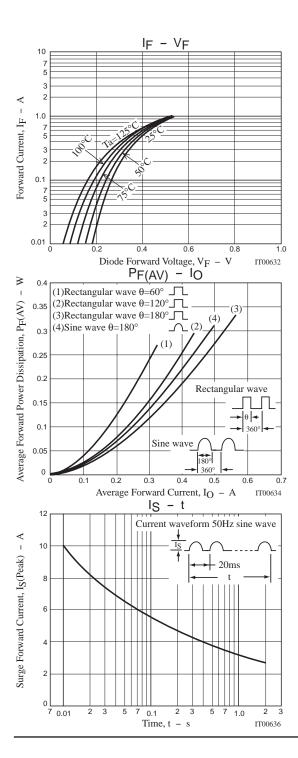
Caution!

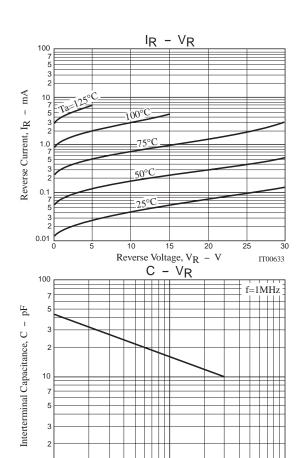
Since this device is a low-V_F SBD, the I_R is large. It is inclined to break due to thermal runaway caused by reverse loss in case of severe conditions such as high temperature / voltage. Please make a safe design taking heat dissipation into consideration.

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trr Test Circuit







7 10

Reverse Voltage, $V_R - V$

1.0

1.0

IT00635

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