Ordering number: ENN6272

Schottky Barrier Diode



SBS004

15V, 1A Rectifier

Applications

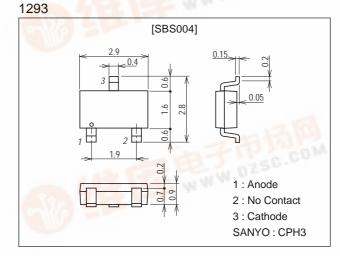
· High frequency rectification (switching regulators, converters, choppers).

Features

- · Low forward voltage (I_F =0.5A, V_F max=0.35V) (I_F =1.0A, V_F max=0.4V).
- · Ultrasmall-sized package, permitting SBS004applied sets to be compact and slim.

Package Dimensions

unit:mm



Specifications

Absolute Maximum Ratings at Ta = 25°C

Parameter	Symbol	Conditions	Ratings	Unit
Repetitive Peak Reverse Voltage	VRRM		15	V
Nonrepetitive Peak Reverse Surge Voltage	V _{RSM}		15	V
Average Output Current	Io	146	1	А
Surge Forward Current	IFSM	50Hz sine wave, 1 cycle	10	Α
Junction Temperature	Tj	1 All 18 -	-55 to +125	°C
Storage Temperature	Tstg	AND ARE LEE W	-55 to +125	°C

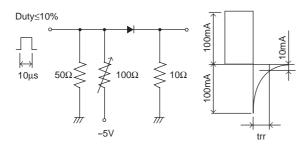
Electrical Characteristics at Ta = 25°C

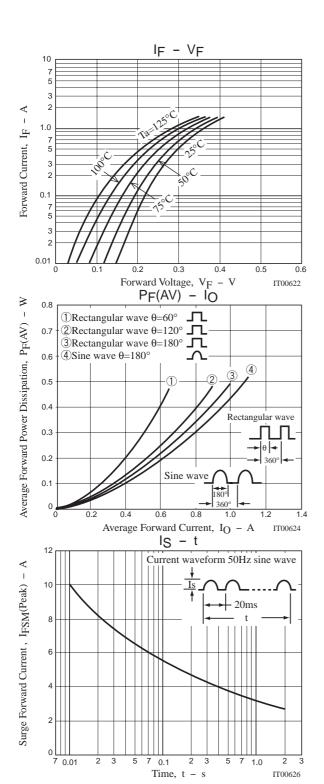
Parameter	Symbol	Conditons		Ratings		
			min	typ	max	Unit
Reverse Voltage	V_{R}	I _R =1mA	15			V
Forward Voltage	V _F 1	I _F =0.5A		0.30	0.35	V
	V _F 2	I _F =1A		0.35	0.40	V
Reverse Current	I _R	V _R =6V			500	μΑ
Interterminal Capacitance	С	V _R =10V, f=1MHz		42		pF
Reverse Recovery Time	t _{rr}	I _F =I _R =100mA, See specified Test Circuit.	100		15	ns
Thermal Resistance	Rth(i-a)	Mounted on a ceramic board (600mm ² ×0.8mm)		110	200	°C/W

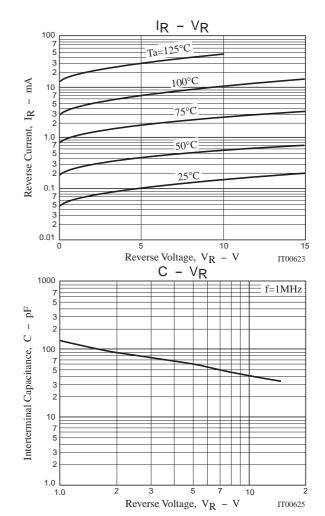
Marking : SC

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t_{rr} Test Circuit







SBS004

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