

SB10-015P

Schottky Barrier Diode

15V, 1A Rectifier

Applications

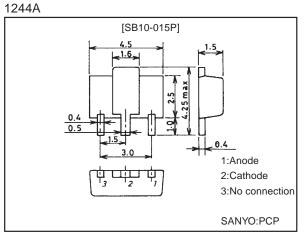
• High frequency rectification (switching regulators, converters, choppers).

Features

- · Low forward voltage (V_F max=0.55V).
- \cdot Fast reverse recovery time (trr max=10ns).
- · 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

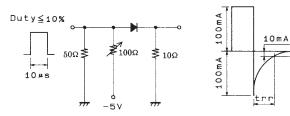
Parameter	Symbol	Conditions	Ratings	Unit
Repetitive Peak Reverse Voltage	VRRM		15	V
Nonrepetitive Peak Reverse Surge Voltage	V _{RSM}		17	V
Average Output Current	IO		1	A
Surge Forward Current	IFSM	50Hz sine wave, 1 cycle	8	A
Junction Temperature	Tj		-55 to +125	°C
Storage Temperature	Tstg		-55 to +125	°C

Electrical Characteristics at Ta = 25°C

Parameter	Symbol	Conditions	Ratings			Unit
			min	typ	max	Unit
Reverse Voltage	VR	I _R =300μA	15			V
Forward Voltage	V _{F(1)}	I _F =1A			0.55	V
	V _{F(2)}	I _F =100mA			0.40	V
Reverse Current	IR	V _R =7.5V			50	μΑ
Interterminal Capacitance	С	V _R =10V, f=1MHz		30		pF
Reverse Recovery Time	trr	IF=IR=100mA, See specified Test Circuit.			10	ns
Thermal Resistance	Rthj-a(1)			310		°C/W
	Rthj-a(2)	Mounted on 250mm ² ×0.8mm ceramic board		120		°C/W

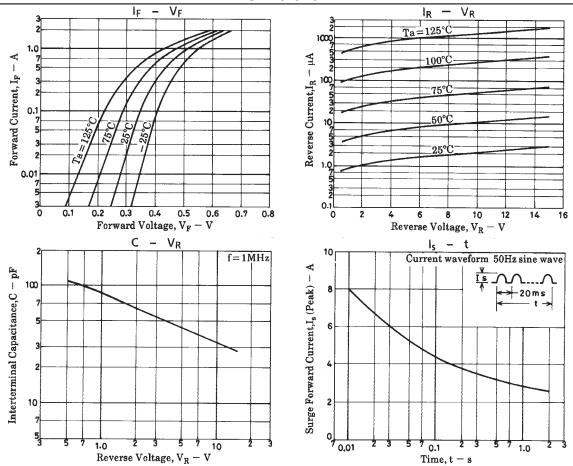
· Marking:SI

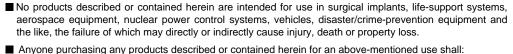
trr Test Circuit



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