

SB002-15CP

Shottky Barrier Diode

150V, 20mA Rectifier

Applications

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

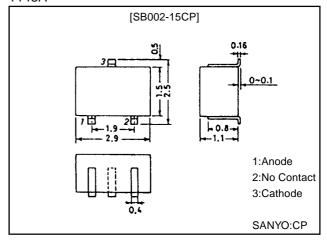
Features

- · Low forward voltage (V_F max=0.75V).
- · Fast reverse recovery time (trr max=10ns).
- · Low switching noise.
- · Low leakage current and high reliability due to highly reliable planner structure.

Package Dimensions

unit:mm

1148A



Specifications

Absolute Maximum Ratings at Ta = 25°C

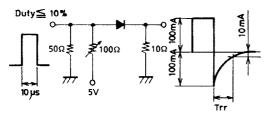
Parameter	Symbol	Conditions	Ratings	Unit
Repetitive Peak Reverse Voltage	VRRM		150	V
Non-repetitve Peak Reverse Surge Voltage	VRSM		155	V
Average Output Current	Io		20	mA
Surege Forward Current	I _{FSM}	50Hz sine wave, 1 cycle	2	А
Junction Temperature	Tj		-55 to +125	°C
Storage Temperature	Tstg		-55 to +125	°C

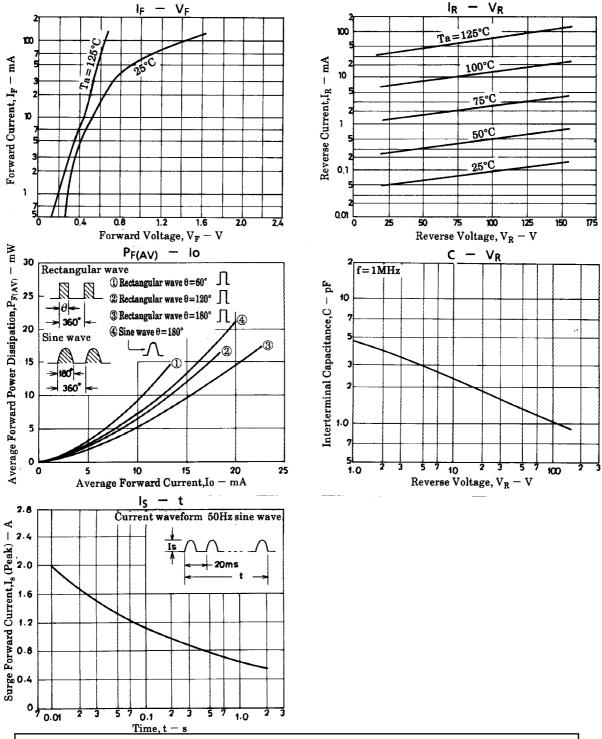
Electrical Characteristics at Ta = 25°C

Parameter	Symbol	Conditions	Ratings			Unit
			min	typ	max	
Reverse Voltage	٧R	I _R =50μA	150			V
Forward Voltage	٧ _F	I _F =20mA			0.75	V
Reverse Current	I _R	V _R =75V			15	μΑ
Interterminal Capacitance	С	V _R =10V, f=1MHz		2.3		pF
Reverse Recovery Time	trr	I _F =I _R =10mA, See Test Circuit.			10	ns
Thermal Resistance	Rthj-a (1)			560		°C/W
	Rthj-a (2)	Mouted in Cu-foiled area of 16mm ² ×0.2mmt on glass epoxy board		410		°C/W

· Marking:E

trr Test Circuit





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