

SB002-15SPA

Shottky Barrier Diode

150V, 20mA Rectifier

Applications

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

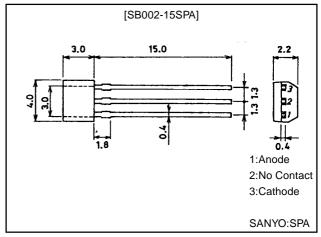
Features

- · 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

1156A



Specifications

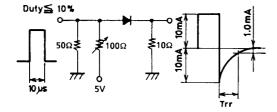
Absolute Maximum Ratings at Ta = 25°C

Parameter	Symbol	Conditions	Ratings	Unit
Repetitive Peak Reverse Voltage	V _{RRM}		150	V
Non-repetitve Peak Reverse Surge Voltage	VRSM		155	V
Average Output Current	Io	50Hz, resistive load, Ta=101°C	20	mA
Surege Forward Current	I _{FSM}	50Hz sine wave, 1 cycle	2	Α
Junction Temperature	Tj		-55 to +125	°C
Storage Temperature	Tstg		-55 to +125	°C

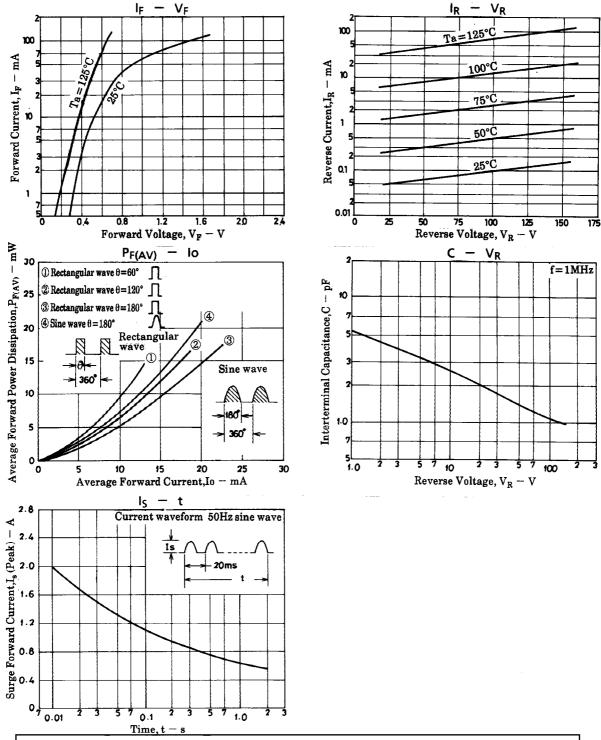
Electrical Characteristics at Ta = 25°C

Parameter	Symbol	Conditions	Ratings			Unit
			min	typ	max	Offic
Reverse Voltage	VR	I _R =50μA	150			V
Forward Voltage	VF	I _F =20mA			0.75	V
Reverse Current	I _R	V _R =75V			15	μA
Interterminal Capacitance	С	V _R =10V, f=1MHz		2.6		pF
Reverse Recovery Time	trr	I _F =I _R =10mA, See Test Circuit.			10	ns
Thermal Resistance	Rthj-a			300		°C/W

trr Test Circuit



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