



SANYO Semiconductors

DATA SHEET

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).
- Fast reverse recovery time (t_{rr} max=10ns).
- Low switching noise.
- Low leakage current and high reliability due to highly reliable planar structure.

Specifications

Absolute Maximum Ratings at $T_a=25^\circ\text{C}$

Parameter	Symbol	Conditions	Ratings	Unit
Repetitive Peak Reverse Voltage	VRRM		15	V
Nonrepetitive Peak Reverse Surge Voltage	VRSM		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 $T_a=25^\circ\text{C}$

Parameter	Symbol	Conditions	Ratings			Unit
			min	typ	max	
Reverse Voltage	VR	$I_R=300\mu\text{A}$	15			V
Forward Voltage	VF1	$I_F=1\text{A}$			0.55	V
	VF2	$I_F=100\text{mA}$			0.40	V
Reverse Current	IR	$V_R=7.5\text{V}$			50	μA
Interterminal Capacitance	C	$V_R=10\text{V}$, $f=1\text{MHz}$		30		pF
Reverse Recovery Time	t_{rr}	$I_F=I_R=100\text{mA}$, 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

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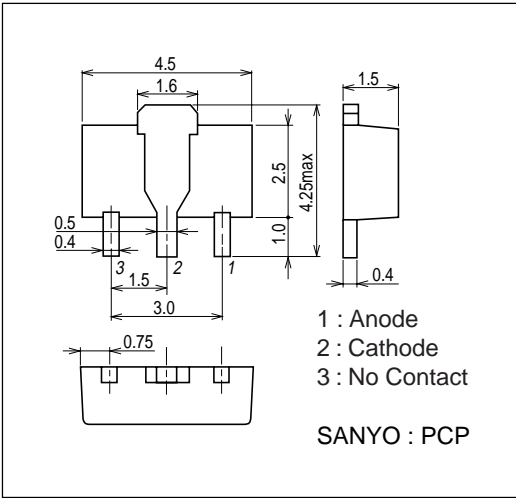
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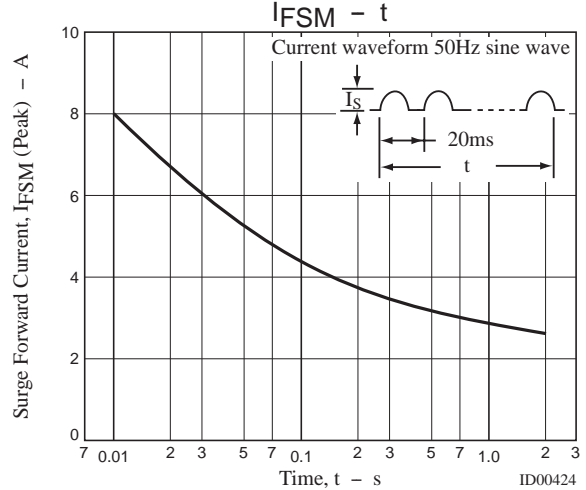
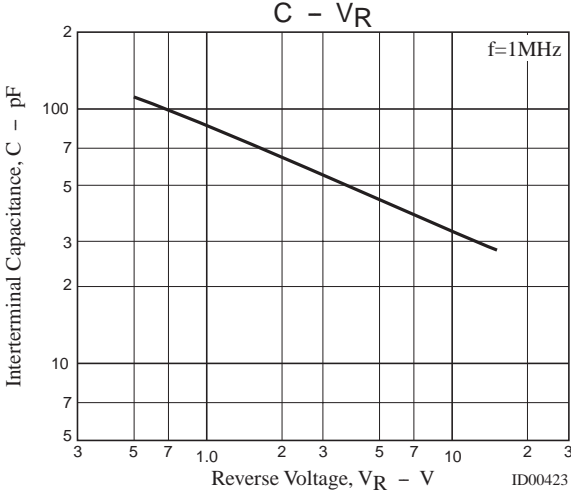
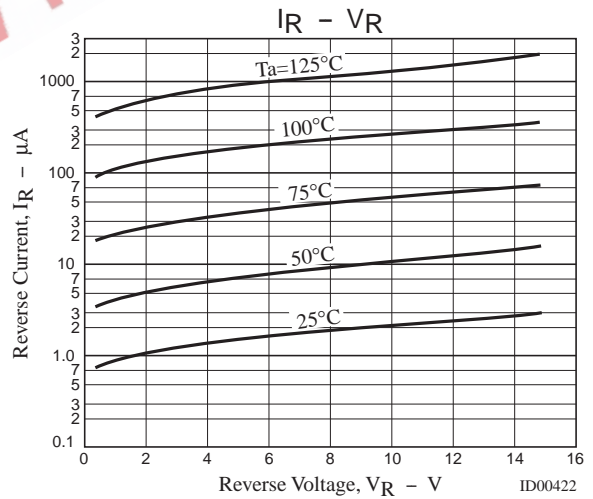
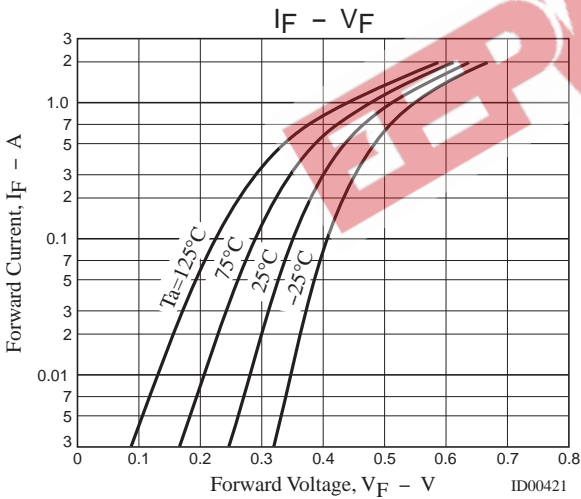
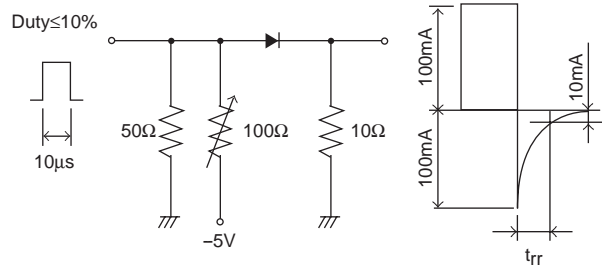
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Package Dimensions

unit : mm
1163A



t_{rr} Test Circuit



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