Ordering number:ENN6292

Schottky Barrier Diode

SBE001

30V, 2A Rectifier

Applications

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

Features

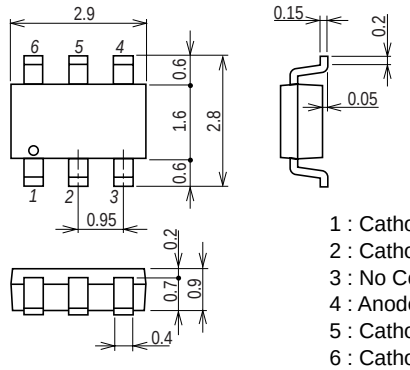
· Low forward voltage (V_F max=0.55V).
· Fast reverse recovery time (t_{rr} max=20ns).
· Low switching noise.
· Low leakage current and high reliability due to highly reliable planar structure.
· Ultrasmall-sized package, permitting SBE001-applied sets to be compact and slim (0.9mm).

Package Dimensions

unit:mm

1295

[SBE001]



1 : Cathode
2 : Cathode
3 : No Contact
4 : Anode
5 : Cathode
6 : Cathode
SANYO : CPH6

Specifications

Absolute Maximum Ratings at Ta = 25˚C

Parameter	Symbol	Conditions	Ratings	Unit
Repetitive Peak Reverse Voltage	V_{RRM}		30	V
Nonrepetitive Peak Reverse Surge Voltage	V_{RSM}		35	V
Average Output Current	I_O		2	A
Surge Forward Current	I_{FSM}	50Hz sine wave, 1 cycle	20	A
Junction Temperature	Tj		–55 to +125	˚C
Storage Temperature	Tstg		–55 to +125	˚C

Electrical Characteristics at Ta = 25˚C

Parameter	Symbol	Conditons	Ratings			Unit
			min	typ	max	
Reverse Voltage	V_R	I_R=500μA	30			V
Forward Voltage	V_F	I_F=2A			0.55	V
Reverse Current	I_R	V_R=15V			100	μA
Interterminal Capacitance	C	V_R=10V, f=1MHz		70		pF
Reverse Recovery Time	t_{rr}	I_F=I_R=100mA, See specified Test Circuit.			20	ns
Thermal Resistance	Rth(j-a)	Mounted on a ceramic board (600mm²×0.8mm)		110		˚C/W

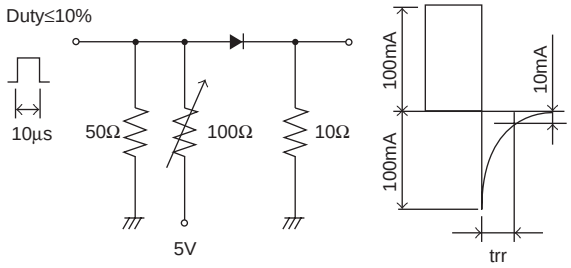
Marking : SA

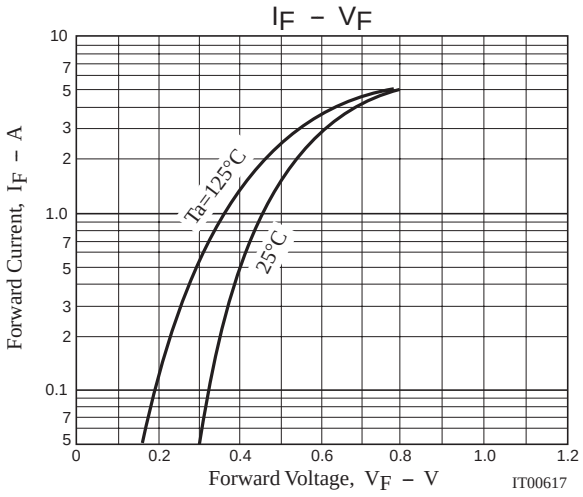
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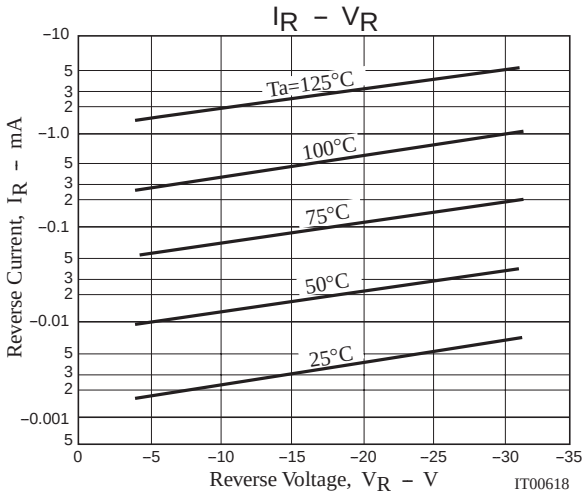
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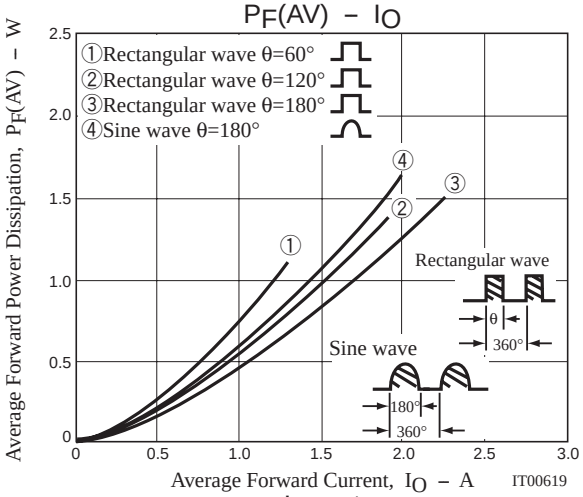
SANYO Electric Co.,Ltd. Semiconductor Company
TOKYO OFFICE Tokyo Bldg., 1-10, 1 Chome, Ueno, Taito-ku, TOKYO, 110-8534 JAPAN

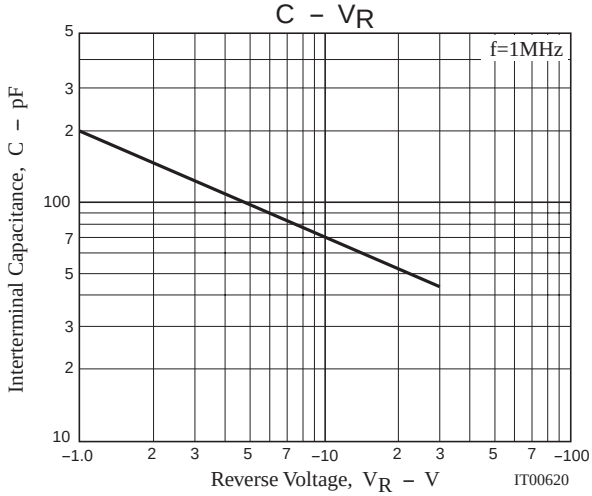
t_{rr} Test Circuit

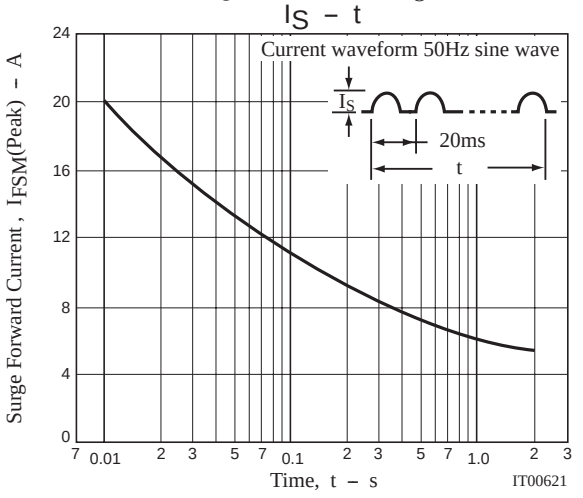












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