

SANYO Semiconductors DATA SHEET

SBE601 — Schottky Barrier Diode (Twin Type · Cathode Common)

30V, 2A Rectifier

Applications

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

Features

- Low forward voltage (VF max=0.60V).
- Fast reverse recovery time (t_{rr} max=20ns).
- · Low switching noise.
- · Low leakage current and high reliability due to highly reliable planar structure.

Absolute Maximum Ratings at Ta=25°C

Parameter	Symbol	Conditions	Ratings	Unit
Repetitive Peak Reverse Voltage	VRRM		30	V
Nonrepetitive Peak Reverse Surge Voltage	VRSM		35	V
Average Output Current	lO		2	Α
Surge Forward Current	IFSM	50Hz sine wave, 1 cycle	20	Α
Junction Temperature	Tj		-55 to +125	°C
Storage Temperature	Tstg		-55 to +125	°C

Electrical Characteristics at Ta=25°C

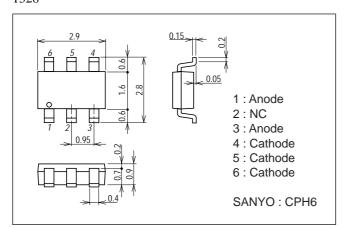
Parameter	Symbol	Conditions	Ratings			Unit
	Symbol		min	typ	max	Offic
Reverse Voltage	VR	I _R =500μA	30			V
Forward Voltage	VF	IF=2A			0.60	V
Reverse Current	IR	V _R =15V			100	μΑ
Interterminal Capacitance	С	V _R =10V, f=1MHz		67		pF
Reverse Recovery Time	t _{rr}	IF=IR=100mA, See specified Test Circuit.			10	ns
Thermal Resistance	Rth(j-a)	Mounted on a ceramic board (600mm ² X0.8mm)		110		°C/W

Marking: SE

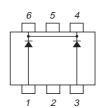
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Package Dimensions

unit : mm 1328



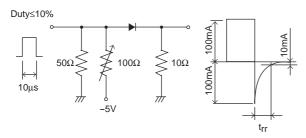
Electrical Connection



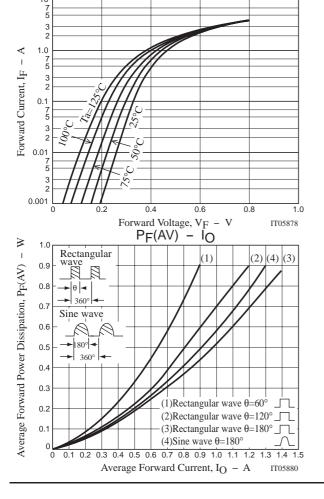
1 : Anode 2 : NC 3 : Anode 4 : Cathode 5 : Cathode 6 : Cathode

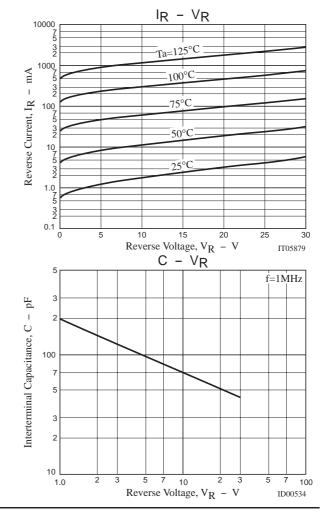
Top view

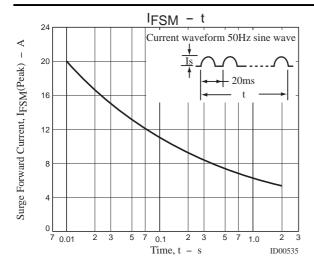
trr Test Circuit



IF - VF







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