

SANYO Semiconductors DATA SHEET

SB1003EJ-

Schottky Barrier Diode **30V, 1A Rectifier**

Applications

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

Features

- Low switching noise.
- Ultraminiature (1608 size) and thin (0.6mm) leadless package.

Specifications

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	IO		1	А
Surge Forward Current	IFSM	50Hz sine wave, 1 cycle	5	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	VR	I _R =200μA	30			V
Forward Voltage	VF	IF=1A			0.55	V
Reverse Current	IR	V _R =15V			15	μΑ
Interterminal Capacitance	С	V _R =10V, f=1MHz		27		pF
Reverse Recovery Time	trr	IF=IR=10mA, See specified Test Circuit.			10	ns
Thermal Resistance	R _{th} (j-a)	Mounted on a ceramic board (600mm ² X0.8mm)		165		°C / W

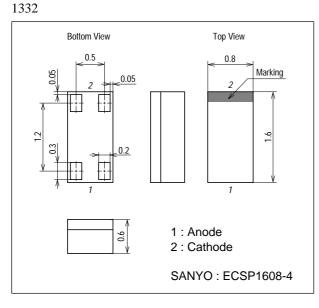
Marking : DH

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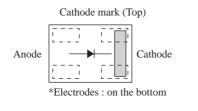
Package Dimensions

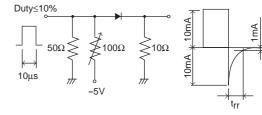
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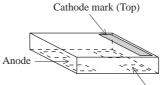


Type No. Indication (Top view) Electrical Connection (Top view) trr Test Circuit

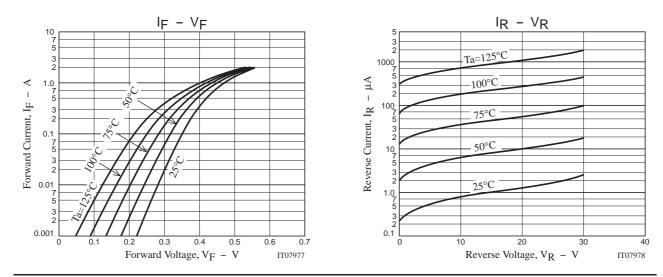


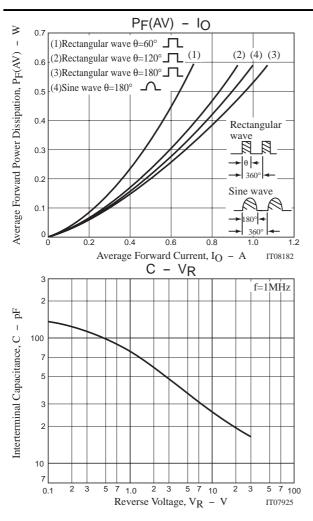


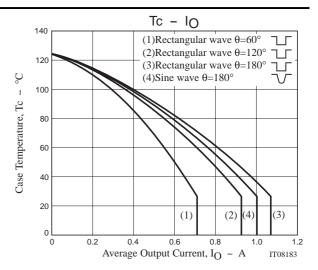




Cathode







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