

SANYO Semiconductors DATA SHEET

SS1003EJ — Schottky Barrier Diode 30V, 1A Rectifier

Applications

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

Features

- · Low switching noise.
- · Low forward voltage (IF=500mA, VF max=0.39V) (IF=1A, VF max=0.45V).
- 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	Α
Surge Forward Current	IFSM	50Hz sine wave, 1 cycle	5	Α
Junction Temperature	Tj		-55 to +125	°C
Storage Temperature	Tstg		-55 to +125	°C

Electrical Characteristics at Ta=25°C

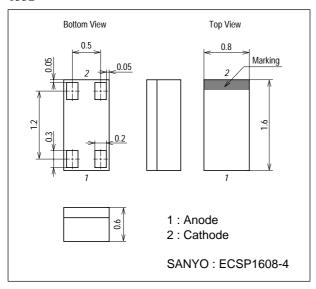
Parameter	Symbol	Conditions	Ratings			Unit
			min	typ	max	Offic
Reverse Voltage	VR	I _R =500μA	30			V
Forward Voltage	V _F 1	I _F =500mA			0.39	V
	V _F 2	I _F =1A			0.45	V
Reverse Current	IR	V _R =15V			360	μΑ
Interterminal Capacitance	С	V _R =10V, f=1MHz		27		pF
Reverse Recovery Time	t _{rr}	IF=IR=10mA, See specified Test Circuit.			10	ns
Thermal Resistance	Rth(j-a)	Mounted on a ceramic board (600mm ² X0.8mm)		165		°C / W

Marking: DF

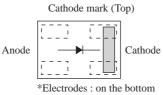
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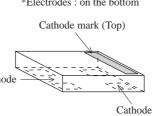
Package Dimensions

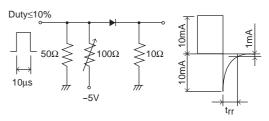
unit : mm 1332

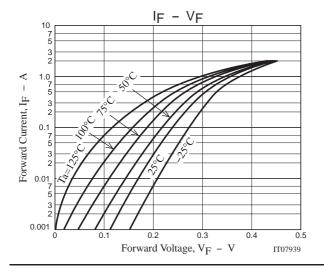


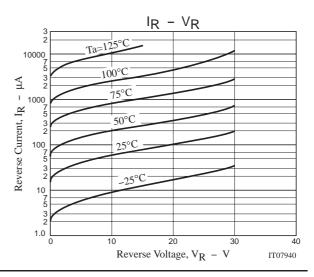




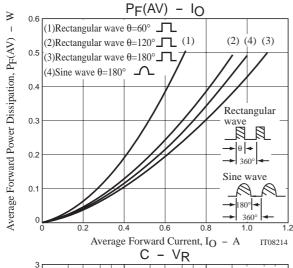


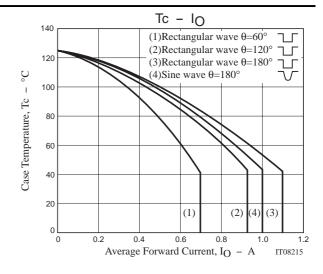


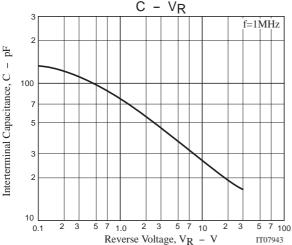




SS1003EJ







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