

SANYO Semiconductors DATA SHEET

SS0503EJ-

Schottky Barrier Diode

30V, 500mA Rectifier

Applications

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

Features

- · Low switching noise.
- Low forward voltage (IF=300mA, VF max=0.4V) (IF=500mA, 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	lo		500	mA
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

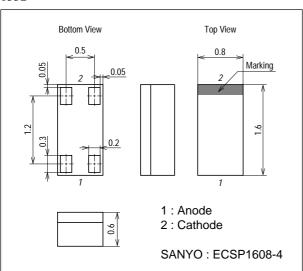
Parameter	Cumbal	Conditions	Ratings			1.114
	Symbol		min	typ	max	Unit
Reverse Voltage	VR	I _R =500μA	30			V
Forward Voltage	V _F 1	I _F =300mA			0.4	V
	VF2	IF=500mA			0.45	V
Reverse Current	IR	V _R =15V			360	μΑ
Reverse Recovery Time	t _{rr}	I _F =I _R =10mA, See specified Test Circuit.			10	ns
Interterminal Capacitance	С	V _R =10V, f=1MHz		16.5		pF
Thermal Resistance	Rth(j-a)	Mounted on a ceramic board (250mm ² X0.8mm)		200		°C/W

Marking: DE

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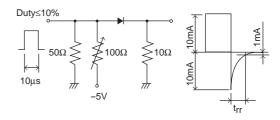
Package Dimensions

unit : mm 1332



trr Test Circuit

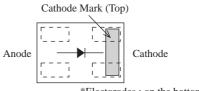
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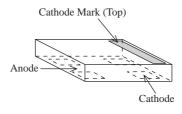
Type No. Indication (Top view)

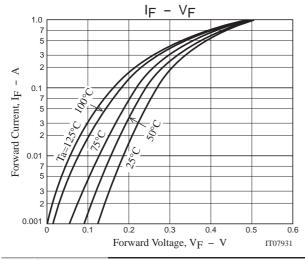


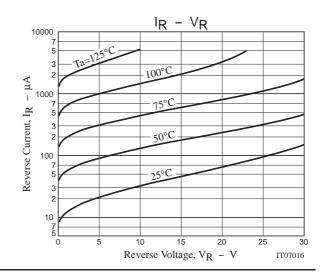
Electrical Connection (Top view)



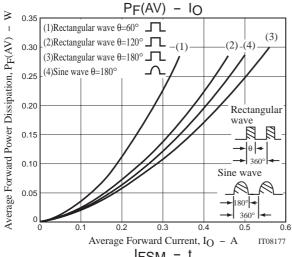
*Electorodes : on the bottom

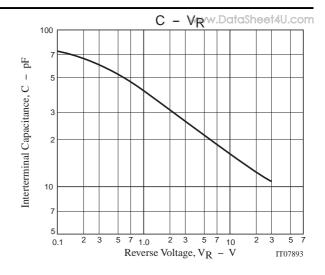


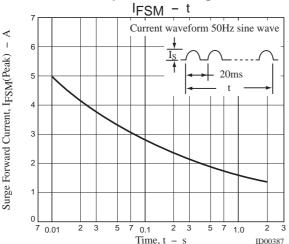




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