Ordering number : ENN8172

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 (I_F=300mA, V_F max=0.4V) (I_F=500mA, V_F 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	V_{RRM}		30	V
Nonrepetitive Peak Reverse Surge Voltage	V_{RSM}		35	V
Average Output Current	I_O		500	mA
Surge Forward Current	I_{FSM}	50Hz sine wave, 1 cycle	5	A
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	V_R	I_R=500µA	30			V
Forward Voltage	V_F1	I_F=300mA			0.4	V
	V_F2	I_F=500mA			0.45	V
Reverse Current	I_R	V_R=15V			360	µA
Reverse Recovery Time	t_{rr}	I_F=I_R=10mA, See specified Test Circuit.			10	ns
Interterminal Capacitance	C	V_R=10V, f=1MHz		16.5		pF
Thermal Resistance	Rth(j-a)	Mounted on a ceramic board (250mm²×0.8mm)		200		°C / W

Marking : DE

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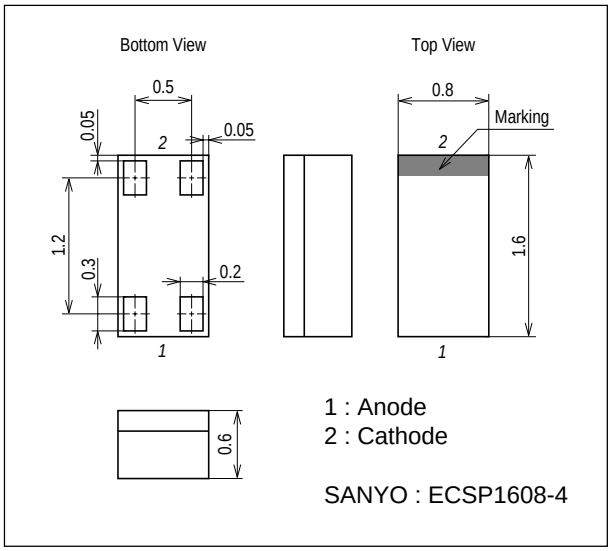
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SANYO Electric Co.,Ltd. Semiconductor Company
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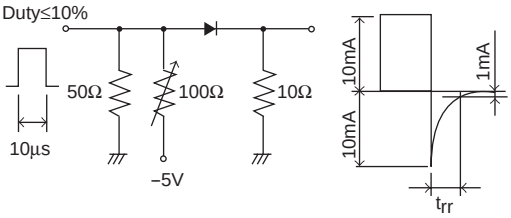
Package Dimensions

unit : mm

1332



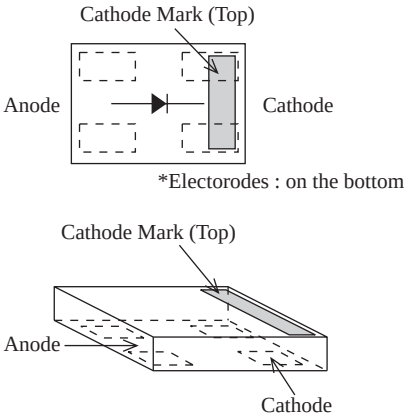
t_{rr} Test Circuit

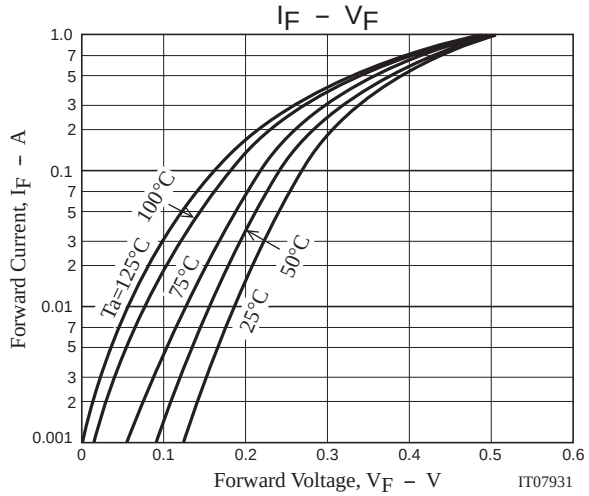


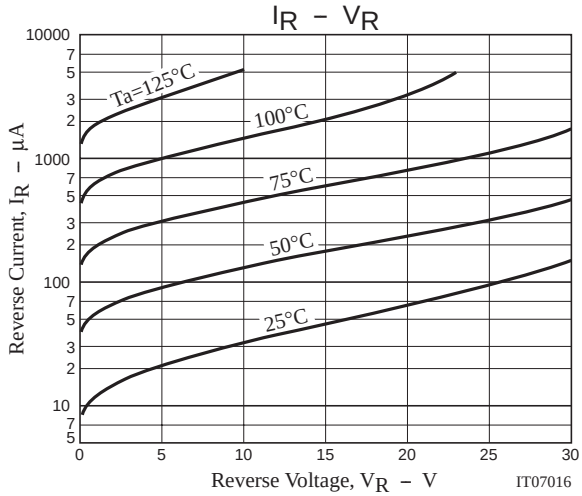
Type No. Indication (Top view)

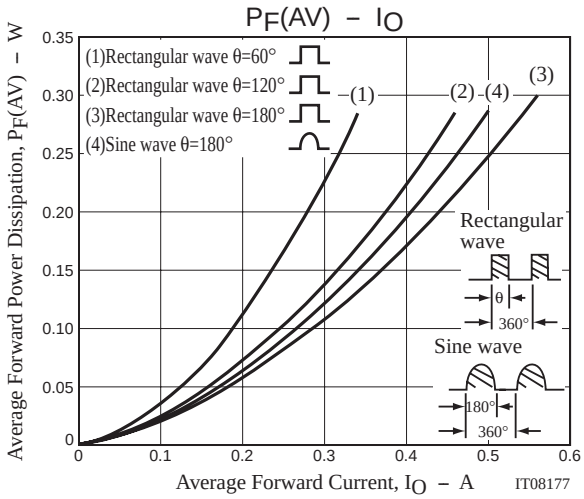


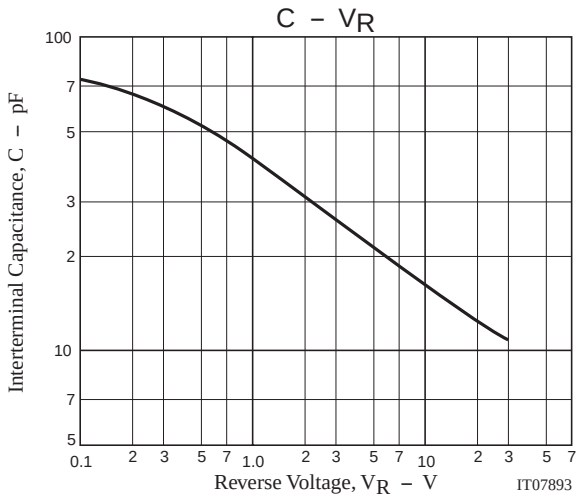
Electrical Connection (Top view)

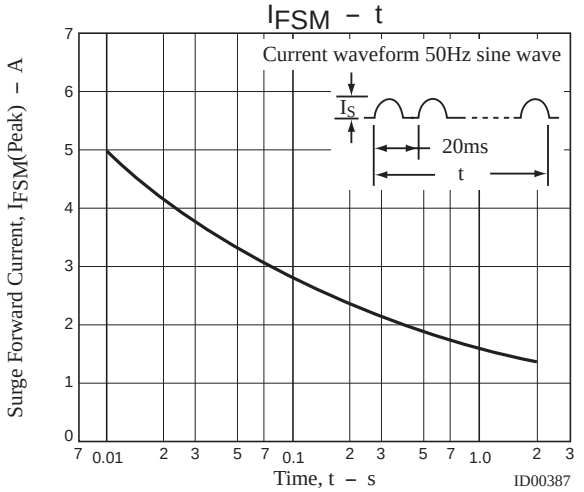












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