



SANYO Semiconductors

DATA SHEET

SS0203EJ — Schottky Barrier Diode

30V, 200mA Rectifier

Applications

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

Features

- Low switching noise.
- Low forward voltage ($I_F=150\text{mA}$, $V_F \text{ max}=0.4\text{V}$) ($I_F=200\text{mA}$, $V_F \text{ max}=0.45\text{V}$).
- Ultraminiature (1608 size) and thin (0.6mm) leadless package.

Specifications

Absolute Maximum Ratings at $T_a=25^\circ\text{C}$

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		200	mA
Surge Forward Current	I_{FSM}	50Hz sine wave, 1 cycle	2	A
Junction Temperature	T_J		-55 to +125	$^\circ\text{C}$
Storage Temperature	T_{stg}		-55 to +125	$^\circ\text{C}$

Electrical Characteristics at $T_a=25^\circ\text{C}$

Parameter	Symbol	Conditions	Ratings			Unit
			min	typ	max	
Reverse Voltage	V_R	$I_R=100\mu\text{A}$	30			V
Forward Voltage	V_{F1}	$I_F=150\text{mA}$			0.4	V
	V_{F2}	$I_F=200\text{mA}$			0.45	V
Reverse Current	I_R	$V_R=15\text{V}$			200	μA
Reverse Recovery Time	t_{rr}	$I_F=I_R=10\text{mA}$, See specified Test Circuit.			10	ns
Interterminal Capacitance	C	$V_R=10\text{V}$, $f=1\text{MHz}$		7.7		pF
Thermal Resistance	$R_{th(j-a)}$	Mounted on a ceramic board (250mm ² X0.8mm)		220		$^\circ\text{C} / \text{W}$

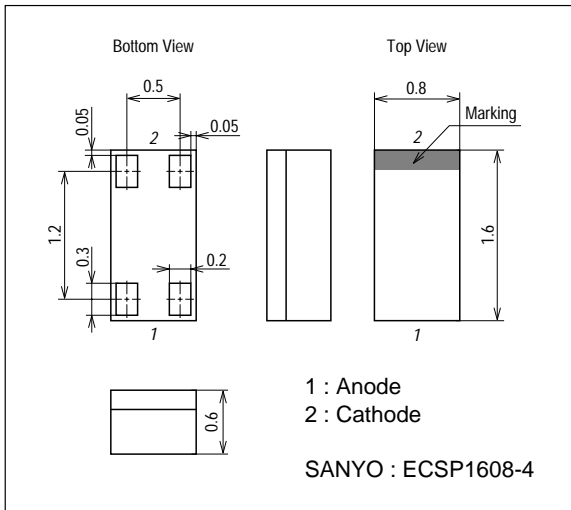
Marking : DC

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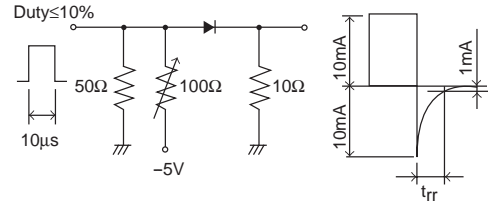
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Package Dimensions

unit : mm
1332



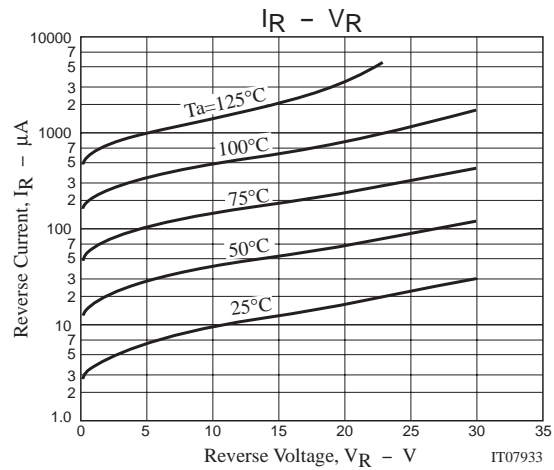
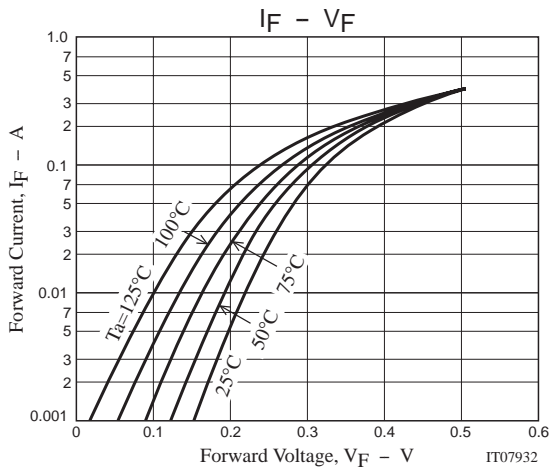
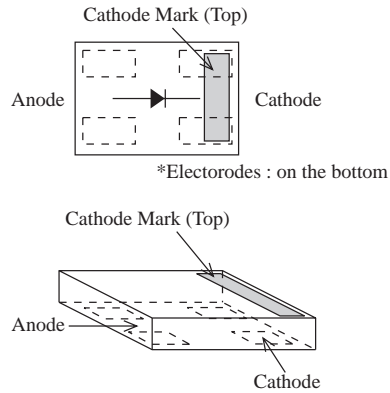
t_{rr} Test Circuit

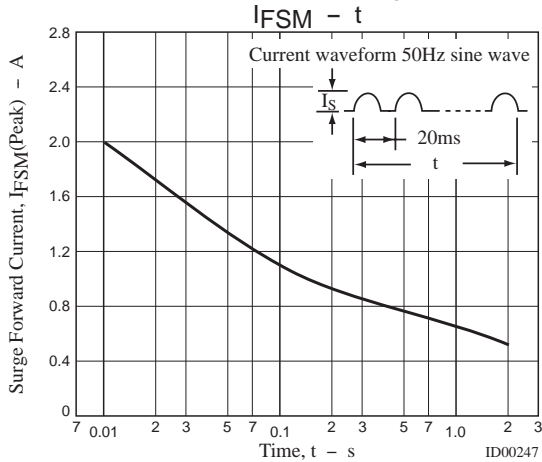
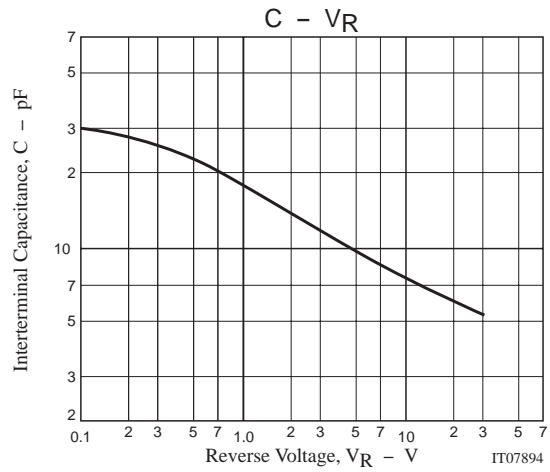
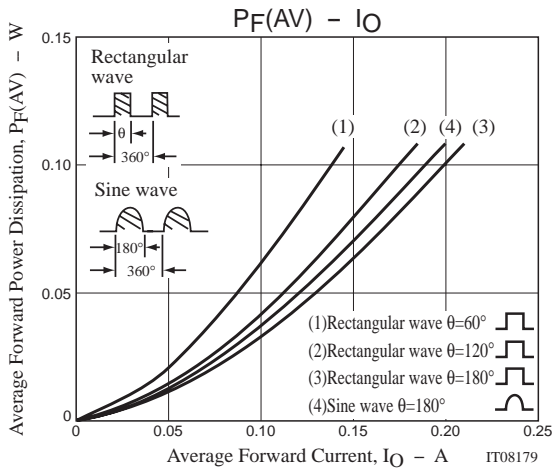


Type No. Indication (Top view)



Electrical Connection (Top view)





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