Ordering number : EN 2989A

SANYO

No.2989A

SB01W05S

Schottky Barrier Diode (Twin Type · Cathode Common)

50V, 100mA Rectifier

Applications

· High frequency rectification (switching regulators, converters, choppers)

Features

· Low forward voltage (V_F max = 0.55V)
· Fast reverse recovery time (trr max = 10ns)
· Low switching noise
· Low leakage current and high reliability due to highly reliable planar structure

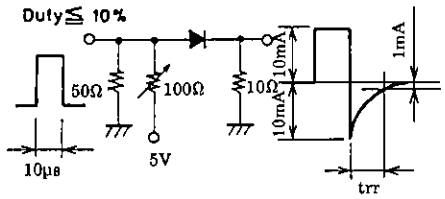
Absolute Maximum Ratings at Ta = 25°C (Value per element)

				unit
Repetitive Peak Reverse Voltage	V_{RRM}		50	V
Nonrepetitive Peak Reverse Surge Voltage	V_{RSM}		55	V
Average Output Current	I_O		100	mA
Surge Forward Current	I_{FSM}	50Hz sine wave,1 cycle	2	A
Junction Temperature	Tj		−55 to +125	°C
Storage Temperature	Tstg		−55 to +125	°C

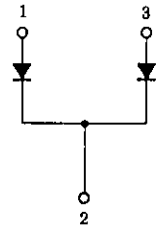
Electrical Characteristics at Ta = 25°C (Value per element)

			min	typ	max	unit
Reverse Voltage	V_R	I_R = 50μA	50			V
Forward Voltage	V_F	I_F = 100mA			0.55	V
Reverse Current	I_R	V_R = 25V			15	μA
Interterminal Capacitance	C	V_R = 10V,f = 1MHz		4.7		pF
Reverse Recovery Time	trr	I_F = I_R = 10mA,See specified Test Circuit.			10	ns
Thermal Resistance	Rthj-a			300		°C/W

trr Test Circuit



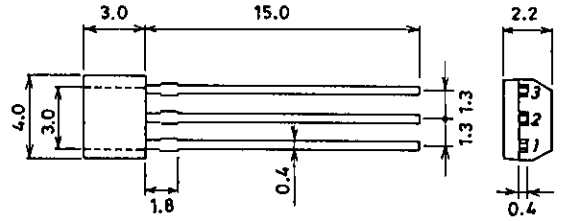
Electrical Connection



1 : Anode
2 : Cathode
3 : Anode

Package Dimensions 1129A

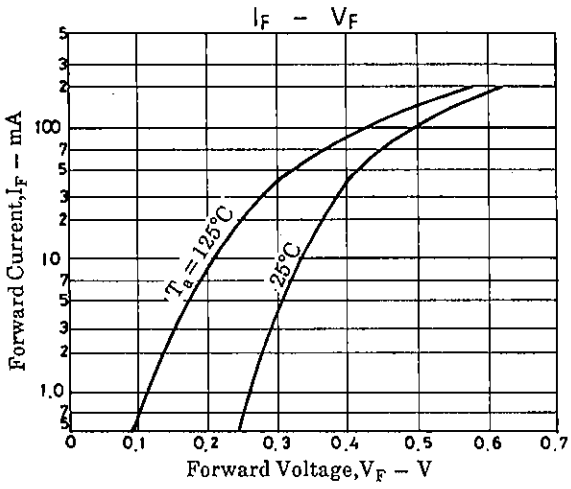
(unit : mm)

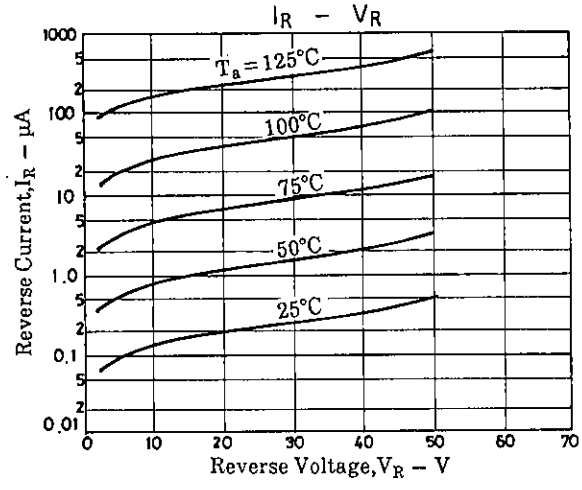


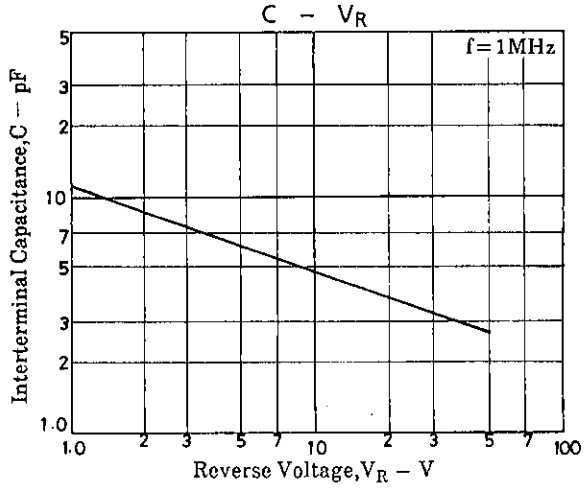
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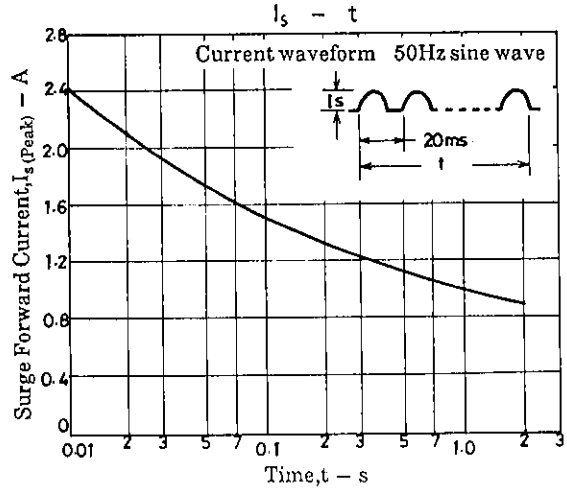
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