Ordering number: EN 2983A

SANYO

No.2983A

SB02W03C

Schottky Barrier Diode (Twin Type · Cathode Common)

30V, 200mA 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)

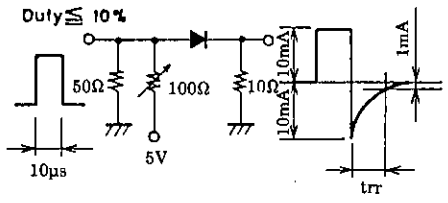
				unit
Repetitive Peak Reverse Voltage	V_{RRM}		30	V
Nonrepetitive Peak Reverse Surge Voltage	V_{RSM}		35	V
Average Output Current	I_O		200	mA
Surge Forward Current	I_{FSM}	50Hz sine wave,1 cycle	2	A
Junction Temperature	Tj		−55 to +125	°C
Storage Temperature	Tstg		−55 to +125	°C

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

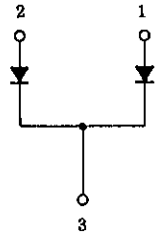
			min	typ	max	unit
Reverse Voltage	V_R	I_R = 50μA	30			V
Forward Voltage	V_F	I_F = 200mA			0.55	V
Reverse Current	I_R	V_R = 15V			15	μA
Interterminal Capacitance	C	V_R = 10V, f = 1MHz		6.3		pF
Reverse Recovery Time	trr	$I_F = I_R$ = 10mA, See specified Test Circuit.			10	ns
Thermal Resistance (1)	Rthj-a (1)			525		°C/W
Thermal Resistance (2)	Rthj-a (2)	Mounted on Cu-foild area of 16mm² × 0.2mmt on glass epoxy board		380		°C/W

Marking : L

trr Test Circuit



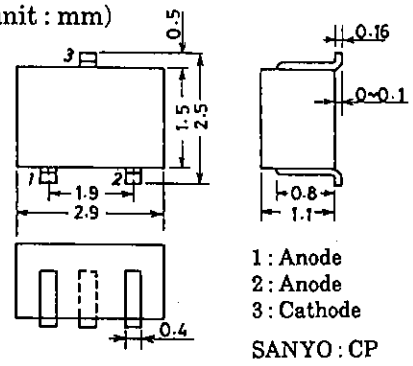
Electrical Connection



1 : Anode
2 : Anode
3 : Cathode

Package Dimensions 1169A

(unit : mm)



1 : Anode
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SANYO : CP