

SB07-03P

Shottky Barrier Diode

# 30V, 700mA Rectifier

### **Applications**

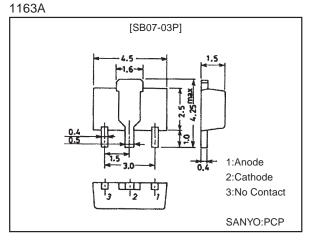
• High frequency rectification (switching regulators, converters, choppers).

### **Features**

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

### **Package Dimensions**

unit:mm



## **Specifications**

#### Absolute Maximum Ratings at Ta = 25°C

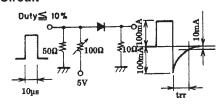
Parameter	Symbol	Conditions	Ratings	Unit
Repetitive Peak Reverse Voltage	V <sub>RRM</sub>		30	V
Nonrepetitive Peak Reverse Surge Voltage	V <sub>RSM</sub>		35	V
Average Output Current	I <sub>O</sub>		700	mA
Surge Forward Current	IFSM	50Hz sine wave, 1cycle	5	A
Junction Temperature	Tj		-55 to +125	°C
Storage Temperature	Tstg		-55 to +125	°C

### Electrical Characteristics at Ta = 25°C

Parameter	Symbol	Conditions	Ratings			Unit
			min	typ	max	Unit
Reverse Voltage	VR	I <sub>R</sub> =300μA	30			V
Forward Voltage	٧ <sub>F</sub>	I <sub>F</sub> =700mA			0.55	V
Reverse Current	IR	V <sub>R</sub> =15V			80	μΑ
Interterminal Capacitance	С	V <sub>R</sub> =10V, f=1MHz		26		pF
Reverse Recorvery Time	trr	IF=IR=100mA, See specified Test Circuit			10	ns
Thermal Resistance	Rthj-a(1)			310		°C/W
	Rthj-a(2)	Mounted on 250mm <sup>2</sup> ×0.8mm ceramic board		120		°C/W

· Marking:SD

ttr Test Circuit



SANYO Electric Co., Ltd. Semiconductor Bussiness Headquarters TOKYO OFFICE Tokyo Bldg., 1-10, 1 Chome, Ueno, Taito-ku, TOKYO, 110-8534 JAPAN

33098HA (KT)/D288TA, TS No.2981-1/2

