

**SB10-05** 

**Schottky Barrier Diode** 

50V, 1A Rectifier

## **Applications**

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

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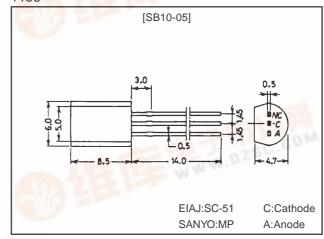
### **Features**

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

# WWW.DZSC.COM **Package Dimensions**

unit:mm

1158



## **Specifications**

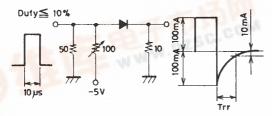
## Absolute Maximum Ratings at Ta = 25°C

Parameter	Symbol	Conditions	Ratings	Unit
Repetitive Peak Reverse Voltage	V <sub>RRM</sub>		50	V
Nonrepetitive Peak Reverse Surge Voltage	V <sub>RSM</sub>		55	V
Average Output Current	Io	50Hz, resistive load. Ta=26°C	07201	Α
Surge Forward Current	IFSM	50Hz sine wave, 1 cycle	10	Α
Junction Temperature	Tj	130 7 4 - 4	-55 to +125	°C
Storage Temperature	Tstg	LEGI GOVERNMENT OF THE PARTY OF	-55 to +125	°C

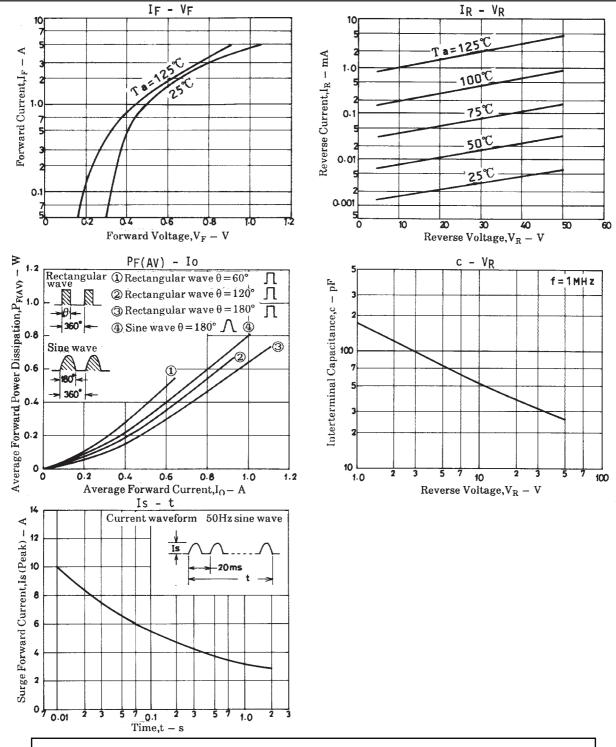
#### Electrical Characteristics at Ta = 25°C

Parameter	Symbol	Conditions		Ratings		
			min	typ	max	Unit
Reverse Voltage	٧R	I <sub>R</sub> =300μA	50			V
Forward Voltage	٧F	I <sub>F</sub> =1A			0.55	V
Reverse Current	I <sub>R</sub>	V <sub>R</sub> =25V		1 -55	80	μΑ
Interterminal Capacitance	С	V <sub>R</sub> =10V, f=1MHz	-42	52	-0.1	pF
Reverse Recovery Time	trr	I <sub>F</sub> =I <sub>R</sub> =100mA, See specified Test Circuit.		4.07	10	ns
Thermal Resistance	Rthj-a		WW	110		°C/W

#### trr Test Circuit



Unit (resistance:Ω)



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