

# **Applications**

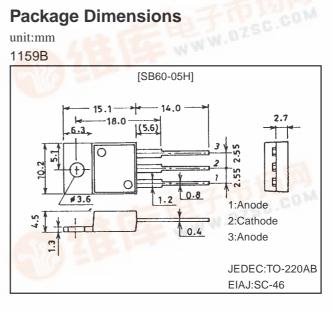
· High frequency rectification (switching regulators, converters, choppers).

### Features

- · Low forward voltage ( $V_F \max = 0.55V$ ).
- · Fast reverse recovery time (trr max=50ns).
- · 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

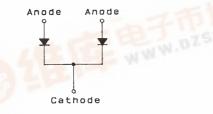
Parameter	Symbol	Conditions	Ratings	Unit
Repetitive Peak Reverse Voltage	VRRM		50	V
Nonrepetitive Peak Reverse Surge Voltage	V <sub>RSM</sub>		55	V
Average Output Current	IO	50Hz, resistive load, Tc=110°C	6	А
Surge Forward Current	IFSM	50Hz sine wave, 1 cycle	100	А
Junction Temperature	Tj		-55 to +125	°C
Storage Temperature	Tstg		-55 to +125	°C

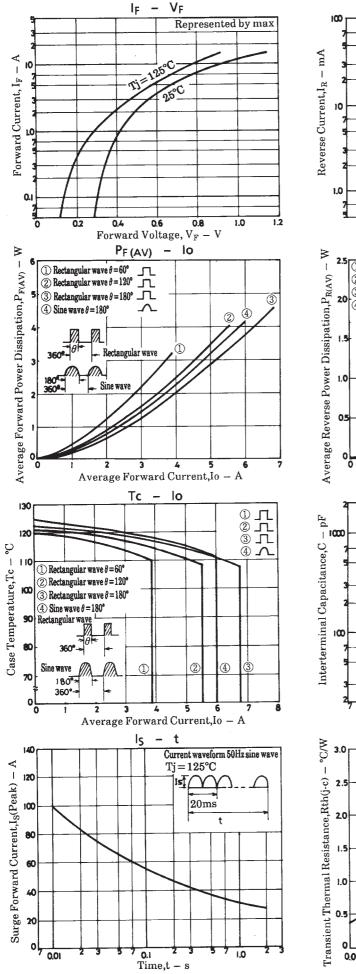
### Electrical Characteristics at Ta = 25°C

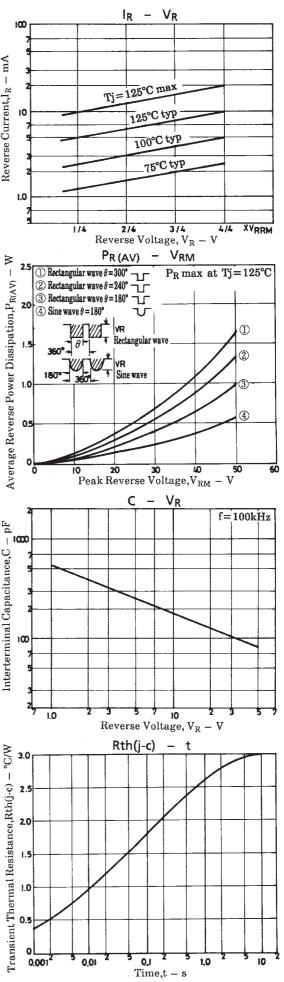
Parameter	Symbol	Conditons	Ratings			Unit
			min	typ	max	Unit
Reverse Voltage	VR	I <sub>R</sub> =1.5mA, Tj=25°C, *	50			V
Forward Voltage	٧ <sub>F</sub>	I <sub>F</sub> =3A, Tj=25°C, *			0.55	V
Reverse Current	IR	V <sub>R</sub> =25V, Tj=25°C, *		-	0.3	mA
Reverse Recovery Time	trr	I <sub>F</sub> =2A, Tj=25°C, *, -dI <sub>F</sub> /dt=10A/µs	12-	5	50	ns
Thermal Resistance (Junction-Case)	Rthj-c	Junction-Case:Smoothed DC	22		3	°C/W

Note)\*:Value per element

### **Electrical Connection**







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