

# SD833-06 (3A)

(60V / 3A )

## Schottky barrier diode

### ■ Major characteristics

Characteristics	SD833-06	Units	Condition
V <sub>RRM</sub>	60	V	
V <sub>F</sub>	0.5	V	T <sub>j</sub> =125°C, typ
I <sub>O</sub>	3	A	

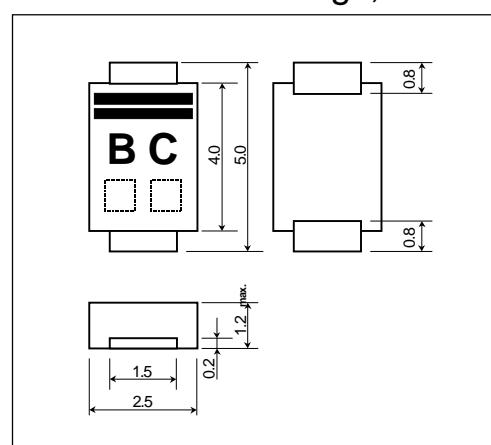
### ■ Features

- Low V<sub>F</sub>
- High voltage 60V
- Low height : 1.2mm max.
- Small mounting area
- Good heat radiation characteristic

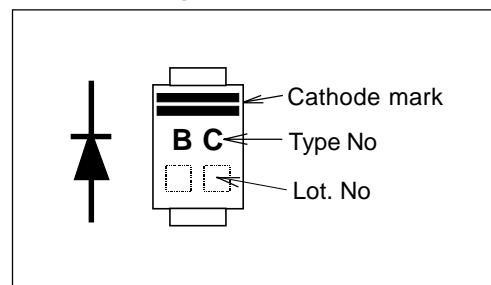
### ■ Applications

- High frequency operation
- DC-DC converters
- AC adapter
- Reverse battery protection
- O-ring diode for redundant power system

### ■ Outline drawings, mm



### ■ Marking



### ■ Maximum ratings and characteristics

- Absolute maximum ratings

Item	Symbol	Conditions	Rating	Unit
Repetitive peak surge reverse voltage	V <sub>RSM</sub>	t <sub>w</sub> =500ns, duty=1/40	60	V
Repetitive peak reverse voltage	V <sub>RRM</sub>		60	V
Average output current	I <sub>O</sub>	Square wave, duty=1/2 T <sub>j</sub> =121°C	3	A
Non-repetitive surge current	I <sub>FSM</sub>	Sine wave 10ms, 1shot	60	A
Operating junction temperature	T <sub>j</sub>		+150	°C
Storage temperature	T <sub>stg</sub>		-40 to +150	°C

- Electrical characteristics (T<sub>c</sub>=25°C Unless otherwise specified )

Item	Symbol	Conditions	Max.	Unit
Forward voltage drop	V <sub>F</sub>	I <sub>FM</sub> =2.5A	0.58	V
Reverse current	I <sub>R</sub>	V <sub>R</sub> =V <sub>RRM</sub>	1.0	mA

- Electrical characteristics (T<sub>c</sub>=25°C Unless otherwise specified )

Item	Symbol	Condition	Max.	Unit
Thermal resistance	R <sub>th(j-c)</sub>	Junction to case	12.0	°C/W

## ■ Characteristics

