

SD833-09 (3A)

(90V / 3A)

Schottky barrier diode

■ Major characteristics

Characteristics	SD833-09	Units	Condition
V _{RRM}	90	V	
V _F	0.66	V	T _j =125°C, typ
I _O	3	A	

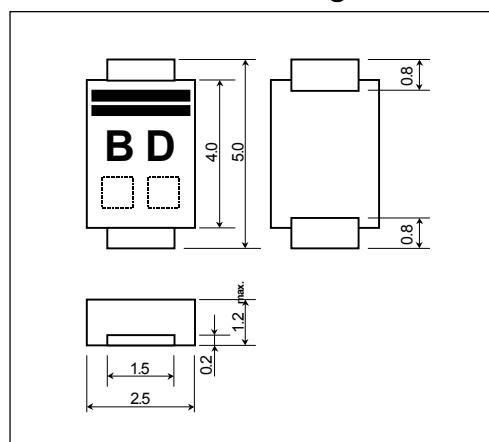
■ Features

- Low V_F
- 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



■ Maximum ratings and characteristics

- Absolute maximum ratings

Item	Symbol	Conditions	Rating	Unit
Repetitive peak surge reverse voltage	V _{RSM}	t _w =500ns, duty=1/40	100	V
Repetitive peak reverse voltage	V _{RRM}		90	V
Average output current	I _O	Square wave, duty=1/2 T _I =112°C	3	A
Non-repetitive surge current	I _{FSM}	Sine wave 10ms, 1shot	60	A
Operating junction temperature	T _j		+150	°C
Storage temperature	T _{stg}		-40 to +150	°C

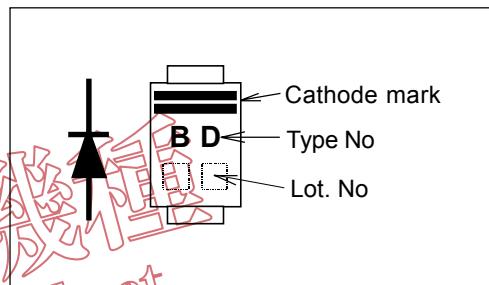
- Electrical characteristics (T_c=25°C Unless otherwise specified)

Item	Symbol	Conditions	Max.	Unit
Forward voltage drop	V _F	I _{FM} =3.0A	0.85	V
Reverse current	I _R	V _R =V _{RRM}	1.0	mA

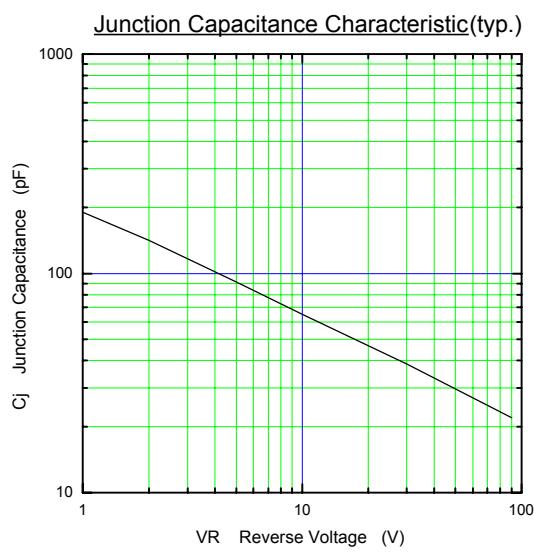
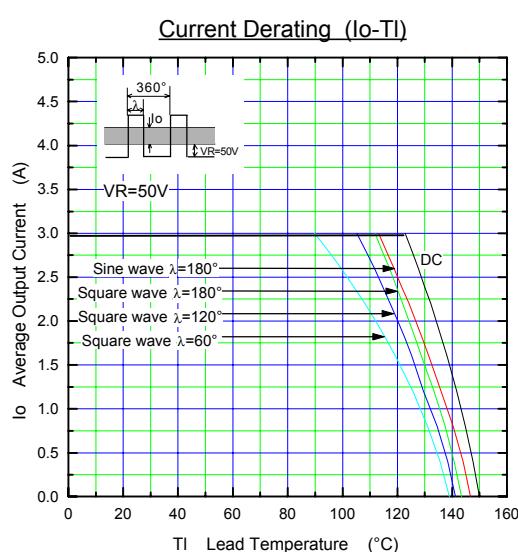
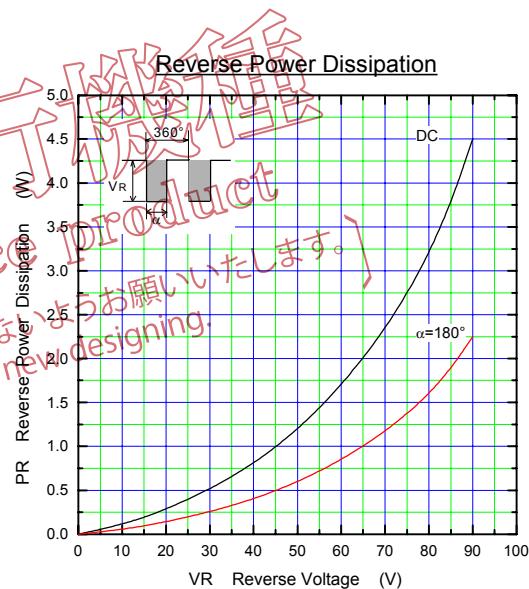
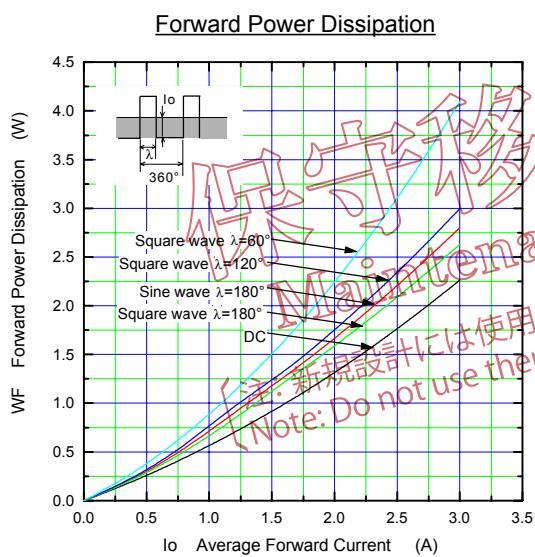
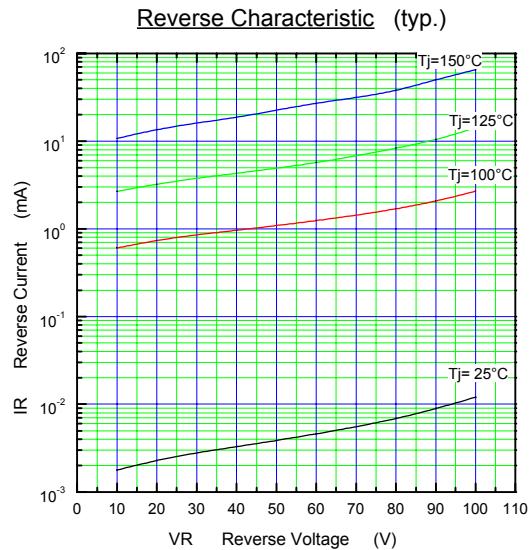
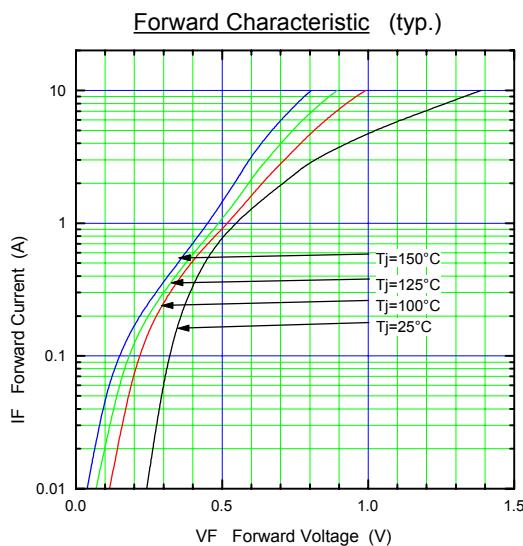
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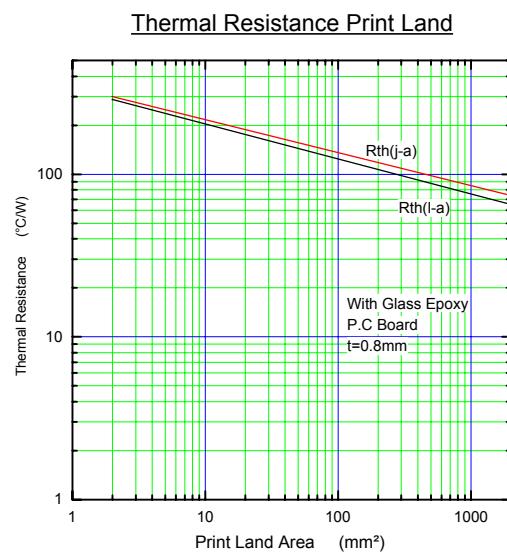
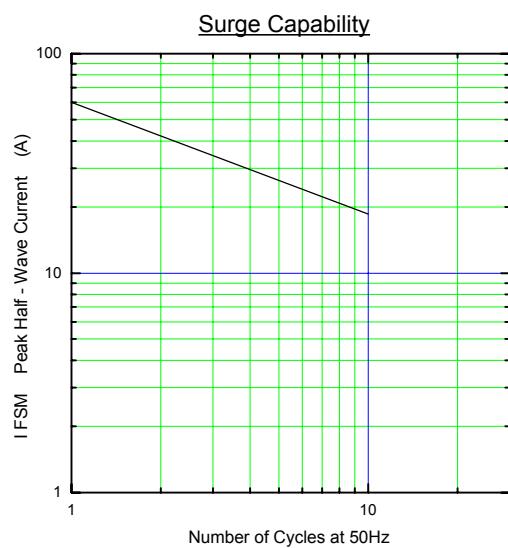
Item	Symbol	Condition	Max.	Unit
Thermal resistance	R _{th(j-c)}	Junction to case	12.0	°C/W

■ Marking



■ Characteristics





保守移行機種
Maintenance product
〔注: 新規設計には使用されないようお願いいたします。〕
〔Note: Do not use them for new designing.〕