

SD833-06 (3A)

(60V / 3A)

Schottky barrier diode

Major characteristics

Characteristics	SD833-06	Units	Condition
V _{RRM}	60	V	
V _F	0.5	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
- Oring diode for redundant power system

Maximum ratings and characteristics

- Absolute maximum ratings

Item	Symbol	Conditions	Rating	Unit
Repetitive peak surge reverse voltage	V _{RSM}	tw=500ns, duty=1/40	60	V
Repetitive peak reverse voltage	V _{RRM}		60	V
Average output current	I _o	Square wave, duty=1/2 T _I =121°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

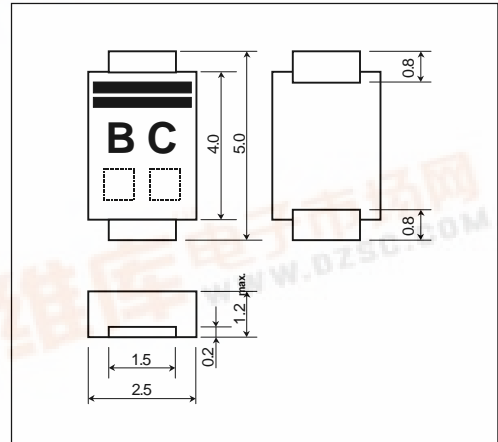
- Electrical characteristics (T_c=25°C Unless otherwise specified)

Item	Symbol	Conditions	Max.	Unit
Forward voltage drop	V _F	I _{FM} =2.5A	0.58	V
Reverse current	I _R	V _R =V _{RRM}	1.0	mA

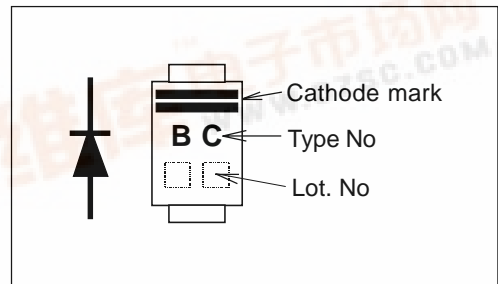
- Electrical characteristics (T_c=25°C Unless otherwise specified)

Item	Symbol	Condition	Max.	Unit

Outline drawings, mm

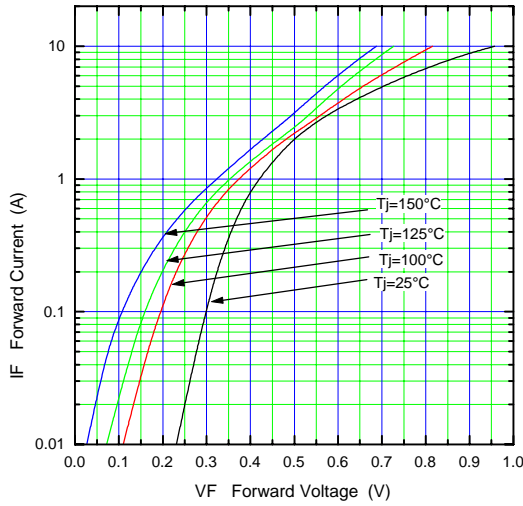


Marking

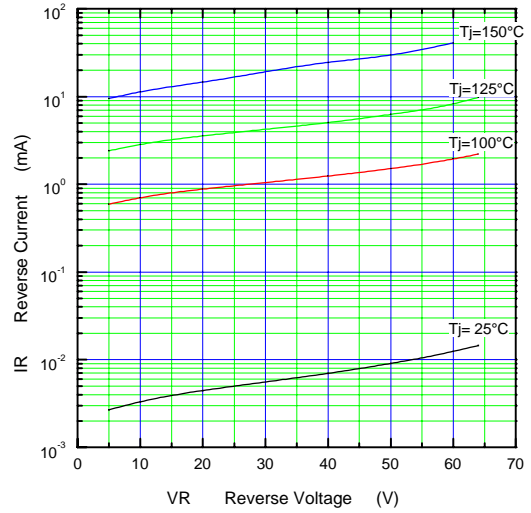


■ Characteristics

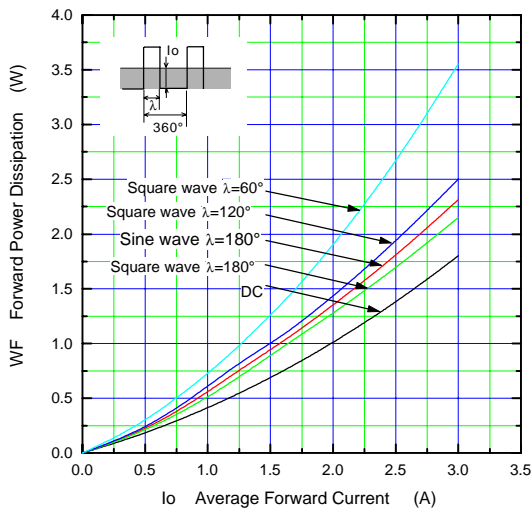
Forward Characteristic (typ.)



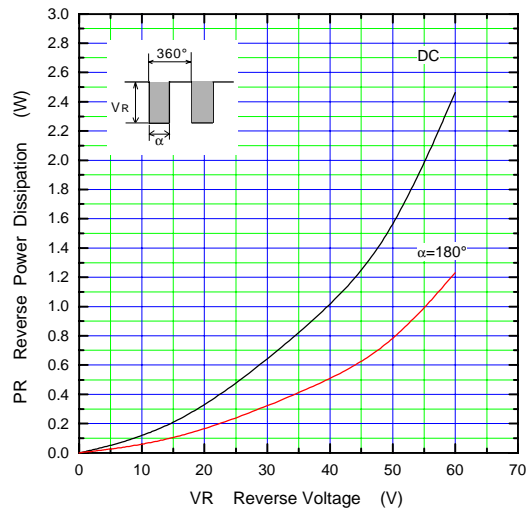
Reverse Characteristic (typ.)



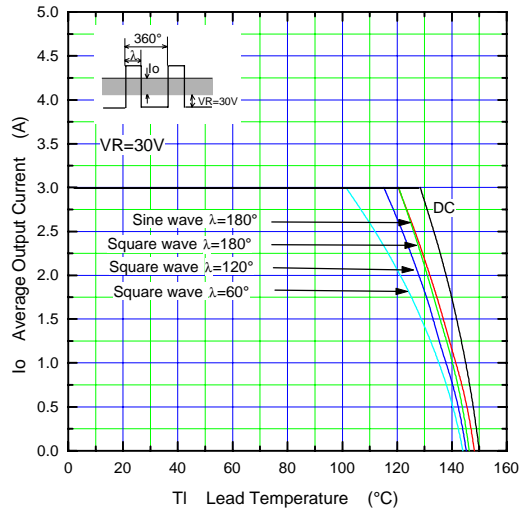
Forward Power Dissipation



Reverse Power Dissipation



Current Derating (I_o - T_l)



Junction Capacitance Characteristic (typ.)

