

Low IR Schottky barrier diode

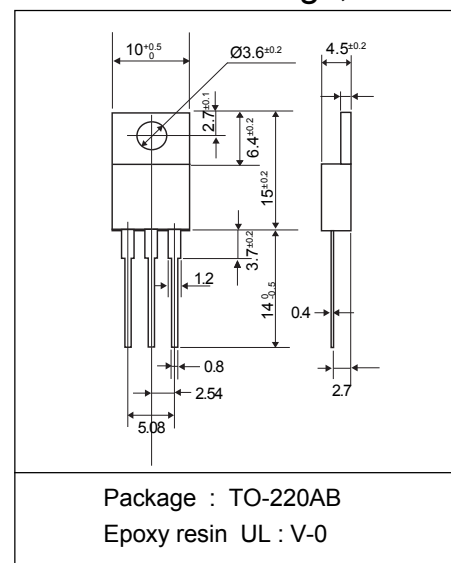
Features

- Low IR
- Low V_F
- Center tap connection

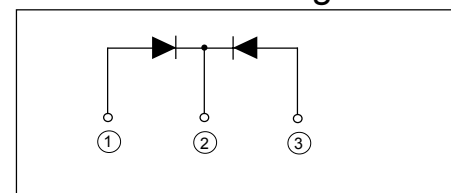
Applications

- High frequency operation
- DC-DC converters
- AC adapter

Outline drawings, mm



Connection diagram



Maximum ratings and characteristics

Maximum ratings

Item	Symbol	Conditions	Rating	Unit
Repetitive peak surge reverse voltage	V_{RSM}	tw=500ns, duty=1/40	100	V
Repetitive peak reverse voltage	V_{RRM}		100	V
Isolating voltage	V_{iso}	Terminals-to-Case, AC, 1min.	1500	V
Average output current	I_o	Square wave, duty=1/2 $T_c=117^{\circ}\text{C}$	20 *	A
Non-repetitive surge current	I_{FSM}	Sine wave 10ms	145	A
non-repetitive reverse surge power dissipation	PRM	tw=10μs, $T_j=25^{\circ}\text{C}$	660	W
Operating junction temperature	T_j		+150	$^{\circ}\text{C}$
Storage temperature	T_{stg}		-40 to +150	$^{\circ}\text{C}$

* Out put current of center tap full wave connection

Electrical characteristics (at $T_a=25^{\circ}\text{C}$ Unless otherwise specified)

Item	Symbol	Conditions	Max.	Unit
Forward voltage **	V_F	$I_F=10\text{A}$	0.86	V
Reverse current **	I_R	$V_R=100\text{V}$	175	μA
Thermal resistance	$R_{th(j-c)}$	Junction to case	1.75	$^{\circ}\text{C/W}$

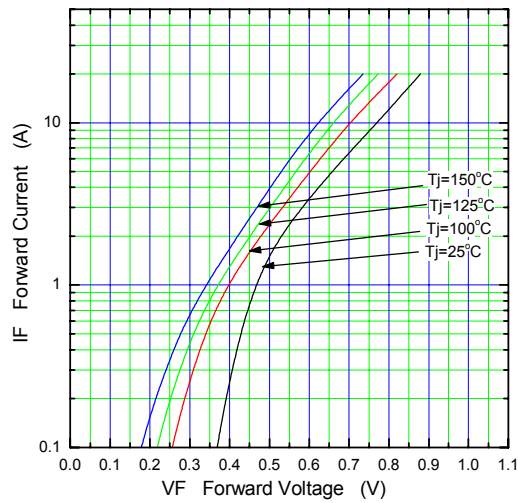
**Rating per element

Mechanical characteristics

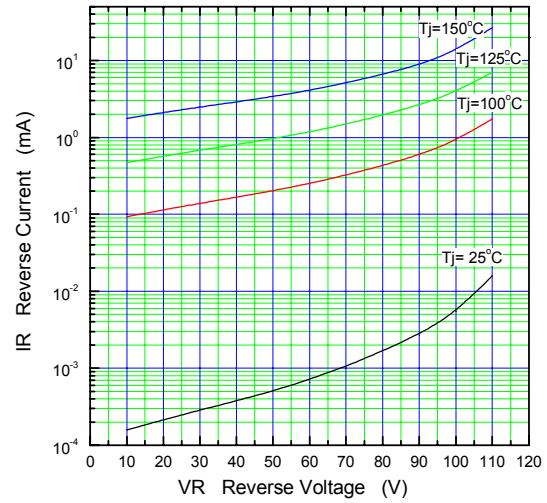
Mounting torque	Recommended torque	0.3 to 0.5	N·m
Approximate mass		2	g

■ Characteristics

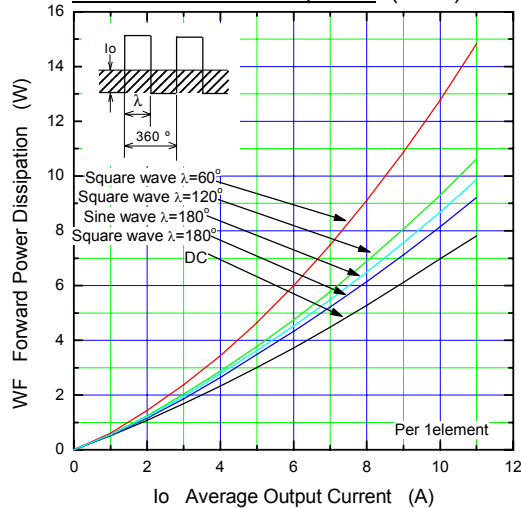
Forward Characteristic (typ.)



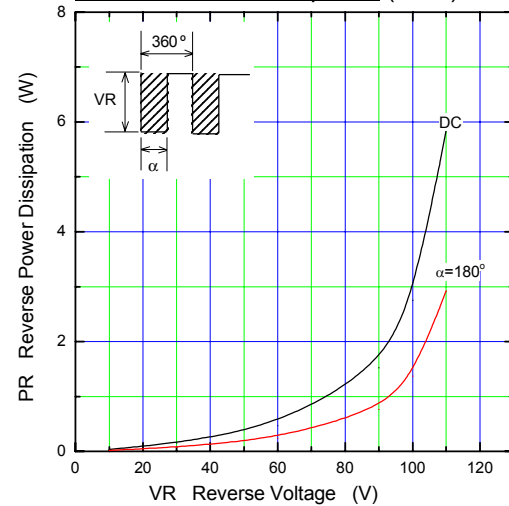
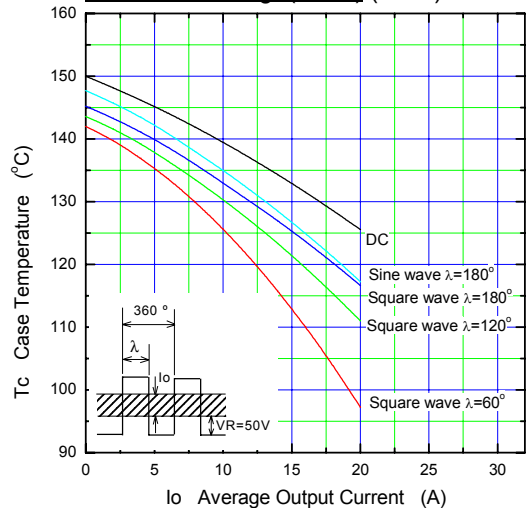
Reverse Characteristic (typ.)



Forward Power Dissipation (max.)



Reverse Power Dissipation (max.)

Current Derating (I_o - T_c) (max.)

λ : Conduction angle of forward current for each rectifier element
 I_o : Output current of center-tap full wave connection

Junction Capacitance Characteristic (max.)

