

SBD

Schottky Barrier Diode, 200V, 2x15A

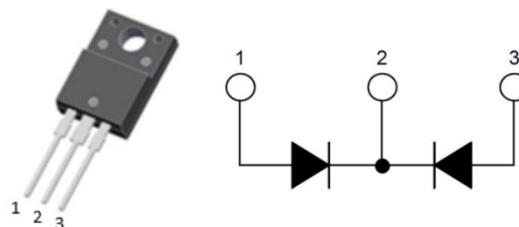
Description:

These diodes are optimized to get low forward voltage and low reverse leakage current. These devices are suited for high frequency switched mode power supplies.

Features:

- High ESD capability
- 150°C operating junction temperature
- High frequency operation
- Low IR value
- High surge capacity

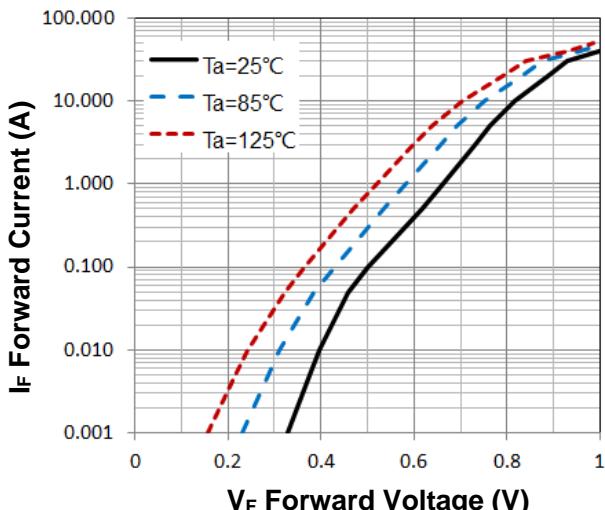
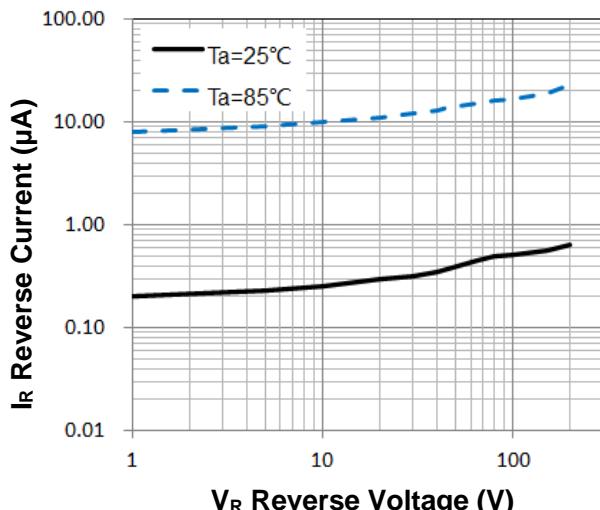
Product Summary	
V_R	200 V
$I_{F(AV)}$	2x15 A



Applications:

- Switched mode power supply

Absolute Maximum Ratings						
Parameter	Symbol	Test Conditions	Values			Units
Repetitive peak reverse voltage	V_{RRM}				200	V
Continuous forward current	$I_{F(AV)}$	$T_A=110^\circ C$			30	A
Single pulse forward current	I_{FSM}	$T_A=25^\circ C$			300	A
Maximum repetitive forward current	I_{FRM}	Square wave, 20kHz			75	A
Operating junction	T_j				150	$^\circ C$
Storage temperatures	T_{stg}				-55 to +150	$^\circ C$
Electrical characteristics ($T_a=25^\circ C$ unless otherwise specified)						
Parameter	Symbol	Test Conditions	Min.	Typ.	Max.	Units
Breakdown voltage Blocking voltage	V_{BR} V_R	$I_R=100\mu A$	200			V
Forward voltage	V_F	$I_F=10.0A$		0.82	0.90	V
		$I_F=15.0A$		0.86	0.93	
		$I_F=10.0A, T_j =125^\circ C$		0.70	0.80	
		$I_F=15.0A, T_j =125^\circ C$		0.75	0.85	
Reverse leakage current	I_R	$V_R=V_{RRM}$			10	μA
		$T_j=125^\circ C, V_R=200V$			2000	μA
Thermal characteristics						
Parameter	Symbol	Typ	MAX			Units
Junction-to-Case	R_{thJC}	-	3.8			$^\circ C/W$

Typical Characteristics**Figure 1.** Forward Characteristic(typ.)**Figure 2.** Reverse Characteristic (typ.)**Package Information**

TO-220F PACKAGE		
Symbol	Dimensions(millimeters)	
	Min.	Max.
A	4.60	5.00
A1	2.40	2.80
A2	0.60	1.00
A3	2.50	2.90
b	0.70	0.90
b1	1.20	1.60
c	0.40	0.60
e	2.34	2.74
E	9.85	10.45
E1	6.80	7.20
H	15.80	16.20
H1	9.00	9.40
H2	12.70	13.30
H3	3.10	3.50
G	2.80	3.20
ΦP	3.00	3.40

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