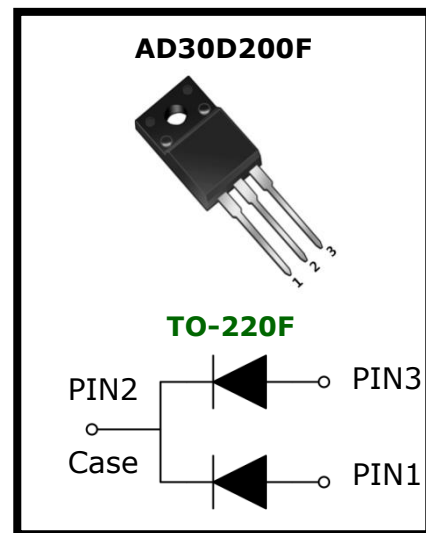


200V 30A Ultra Low VF Schottky

Characteristics Summary

Characteristics	Values	Units
IF(AV)	15 X 2	A
VRRM	200	V
VF @ 10A, TJ = 25°C	0.76	V, typ.
TJ Operating Junction Temperature	-65 to +175	°C



Features

- Ultra Low Forward Voltage (VF) Drop
- Very Low Reverse Leakage in high temperature.
- Softest, fast switching capability
- 150°C Operating Junction Temperature
- Lead Free Finish, RoHS Compliant

Typical Applications

Device optimized for low forward voltage drop to maximize efficiency in Power Supply applications.

- DC/DC Converters
- AC/DC Converters



Maximum Ratings Characteristics

(TA = 25°C unless otherwise specified)

Parameter	Symbol	Values	Units
DC Blocking Voltage	V _{RM}	200	V
Working Peak Reverse Voltage	V _{RWM}		V
Peak Repetitive Reverse Voltage	V _{RRM}		V
Average Rectified Forward Current Per device (Rated VR-20Khz Square Wave) – 50% duty cycle	I _D	15	A
Peak Forward Surge Current – 1/2 60hz	I _{FSM}	250	A
Peak Repetitive Reverse Surge Current (2uS-1Khz)	I _{RRM}	1	A
Typical Thermal Resistance (per leg) Package = TO-220F	R _{θJC}	4	°C / W
Isolation voltage (TO-220F only)	V _{AC}	1500	V
Maximum Rate of Voltage Change (at Rated VR)	dv/dt	10000	V/uS
Operating Junction Temperature	T _J	-65 to +175	°C
Storage Junction Temperature	T _{STG}	-65 to +175	

Electrical Characteristics – (per leg)

(TA = 25°C unless otherwise specified)

Parameter	Test Conditions		Symbol	Typ.	Max.	Units
Instantaneous Forward Voltage	IF = 5A	TJ = 25°C	VF*	0.65	0.75	V
	IF = 10A	TJ = 25°C		0.76	0.83	
	IF = 15 A	TJ = 25°C		0.86	0.90	
		TJ = 125°C		0.69	0.74	
Instantaneous Reverse Current	VR = 200 V	TJ = 25°C	IR*	-----	40	uA
		TJ = 125°C		-----	20	mA

* Pulse width < 300 uS, Duty cycle < 2%

Characteristics Curves

($T_A = 25^\circ\text{C}$ unless otherwise specified)

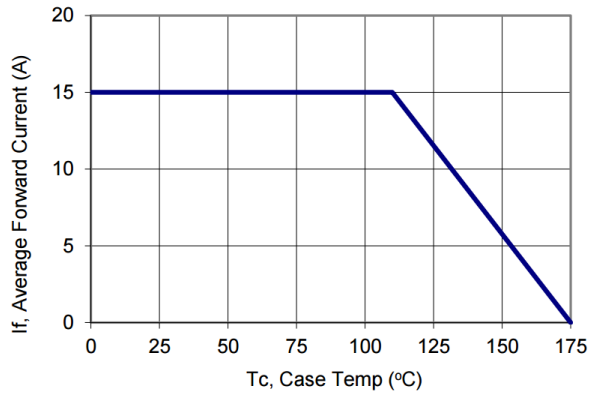


Figure 1: Current Derating, Case

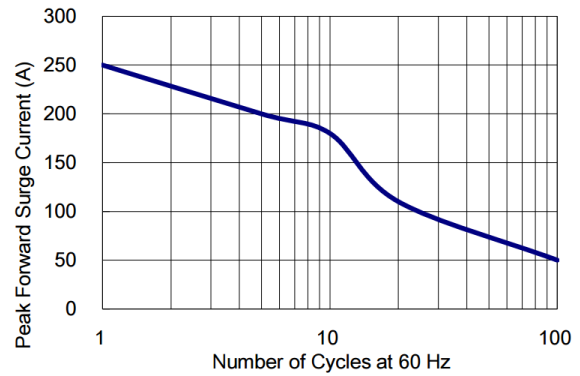


Figure 2: Maximum Repetitive Surge Current

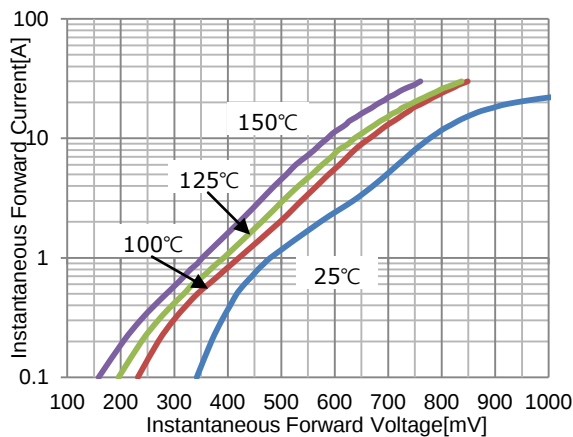


Figure 3 : Typical Forward Voltage

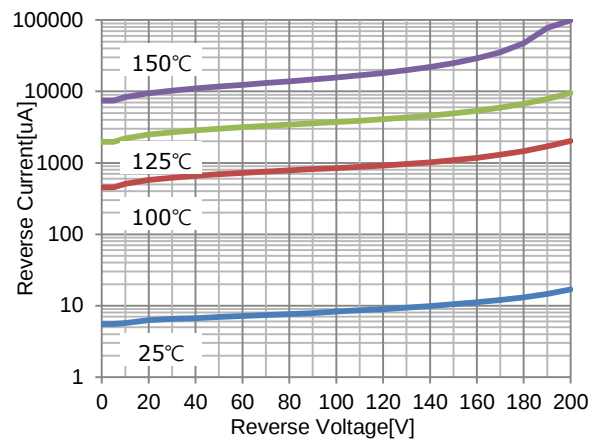


Figure 4 : Typical Reverse Current

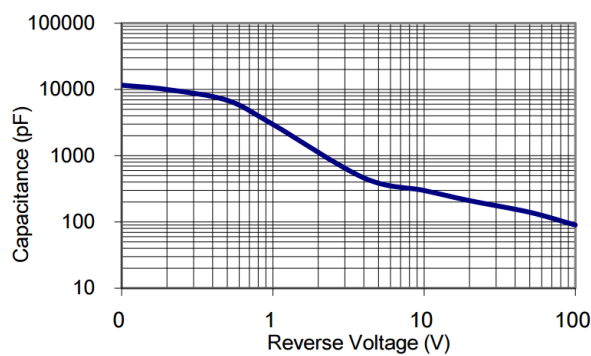
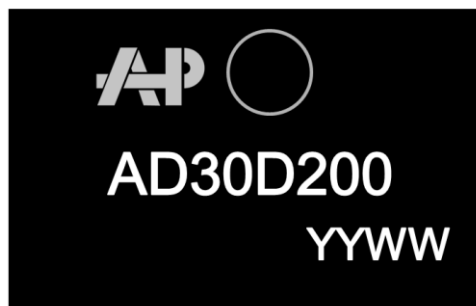


Figure 5: Typical Junction Capacitance

Ordering Information

Part No	Package	Packing	Finish	Halogen	Packing Unit
AD30D200F	TO-220F	Tube	Sn	Free	5,000ea

Marking Layout



LOGO IMAGE



1ST Line : Company logo

2nd Line : Date code

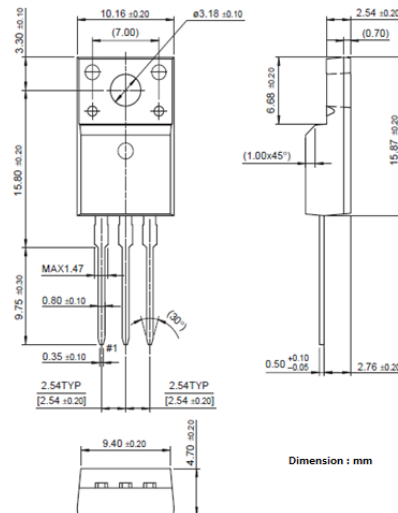
- WW : Work week calendar
- YY : Last one digit of calendar year

3rd Line : Device name

-F : TO-220F Full Molding PKG code

Package Dimensions

TO-220F



Revision History

No	Date	Contents
0	2016-10-17	Initial Brief Datasheet Release

<http://www.apsemi.com>

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