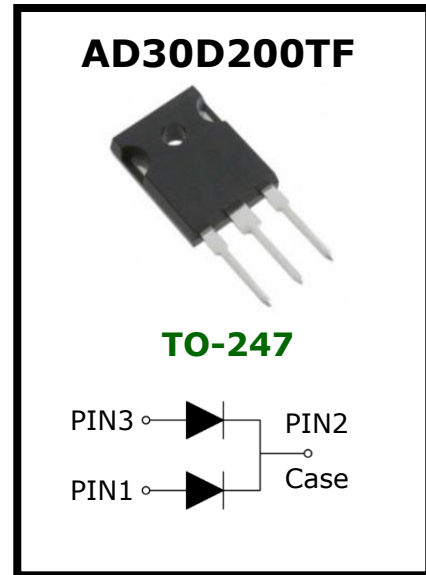


200V 30A Ultra Low VF Dual Schottky

Characteristics Summary

Characteristics	Values	Units
IF(AV)	15 X 2	A
VRRM	200	V
VFBC @ 10A, TJ = 25°C	0.75	V, typ.
Tj Operating Junction Temperature	-40 to +150	°C



Features

- Ultra Low Forward Voltage (VF) Drop Low Power Losses
- Low Leakage Current at high temperature.
- Reliable application for various circumstances.
- 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, high frequency converters, freewheeling diodes.



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}	2.0	A
Typical Thermal Resistance (per leg)	R _{θJC}	1.6	°C / W
Maximum Rate of Voltage Change (at Rated VR)	dv/dt	10,000	V/uS
Operating Junction Temperature	T _J	-40 to 150	°C
Storage Junction Temperature	T _{STG}	-40 to 150	

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*	0.69	0.74	Volts
	IF = 10A	TJ = 25°C		0.75	0.79	
	IF = 15A	TJ = 25°C		0.81	0.86	
		TJ = 125°C		0.65	0.7	
Instantaneous Reverse Current	VR = 200V	TJ = 25°C	IR*	14	40	uA
		TJ = 125°C		7	20	mA
Junction Capacitance	VR = 5V, f = 1MHz		CJ	344		pF
* Pulse width < 300 uS, Duty cycle < 2%						



Characteristics Curves

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

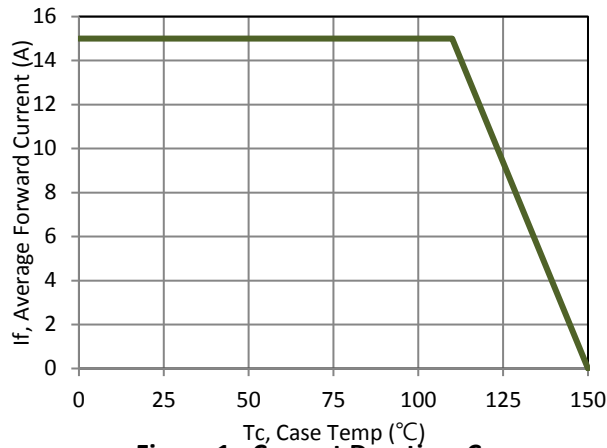


Figure 1 : Current Derating, Case

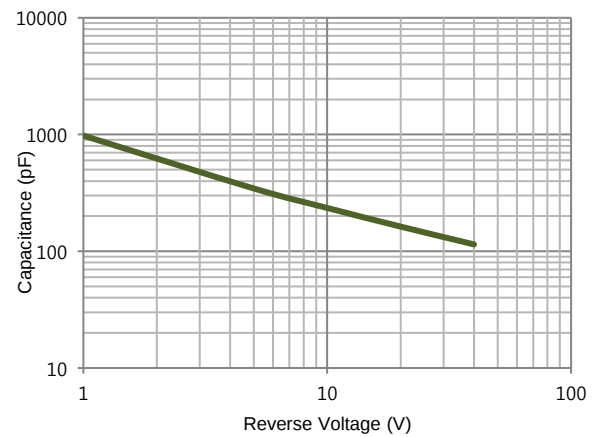


Figure 2 : Typical Junction Capacitance

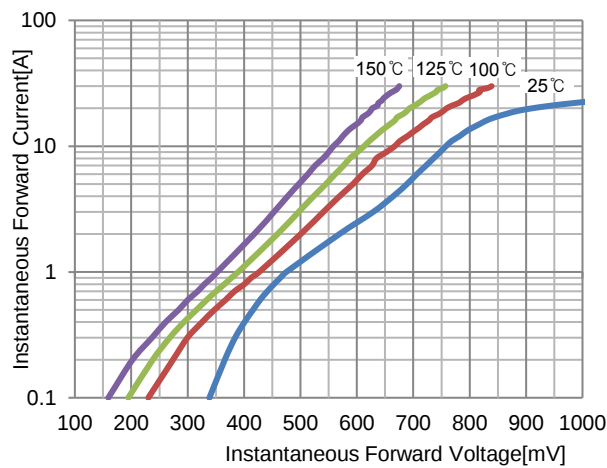


Figure 3 : Typical Forward Voltage

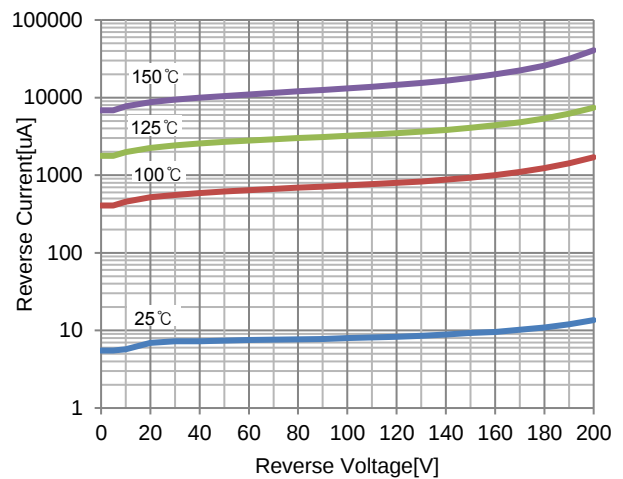
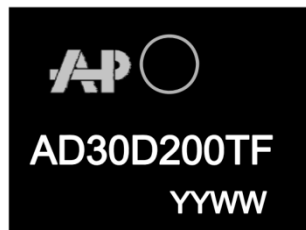


Figure 4 : Typical Reverse Current

Ordering Information

Part No	Package	Packing	Finish	Halogen	Packing Unit
AD30D200TF	TO-247	Tube : 30pcs	Sn	Free	2,250pcs

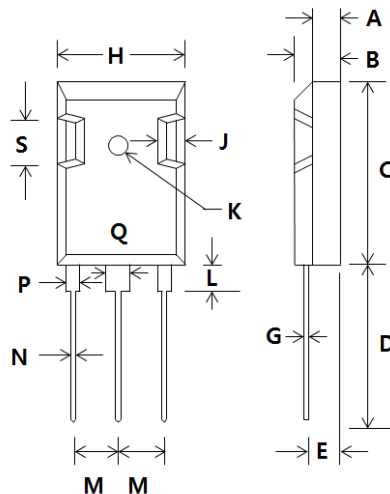
Marking Layout



AP : APsemi LOGO
YY : 2-digit Year code
WW : 2-digit Week Code

Package Dimensions

TO-247



TO-3P / TO-247 unit : mm		
Dim	Min	Max
A	1.9	2.1
B	4.85	5.15
C	20.3	21.75
D	19.60	20.1
E	2.2	2.6
G	0.51	0.76
H	15.45	16.25
J	1.93	2.18
K	2.9Ø	3.2Ø
L	3.78	4.38
M	5.2	5.7
N	1.0	1.4
P	1.8	2.2
Q	2.8	3.2
S	4.4 Typ.	



Revision History

No	Date	Contents
0	2016-10-17	Initial Brief Datasheet Release
1	2019-01-11	Junction Capacitance Updated

<http://www.apsemi.com>

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