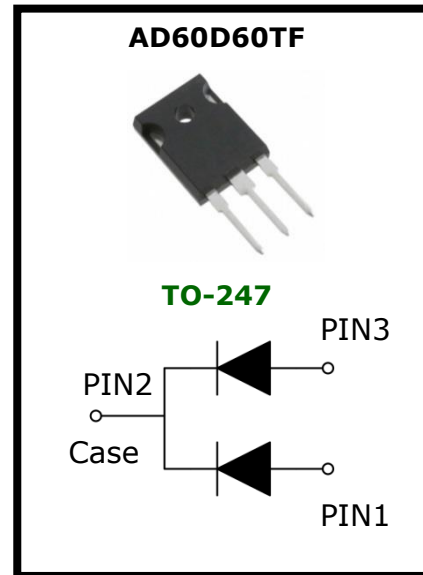


60V 60A Ultra Low VF Schottky

Characteristics Summary

Characteristics	Values	Units
IF(AV)	30 X 2	A
VRRM	60	V
V _{FBC} @ 15A, T _J = 25°C	0.50	V, typ.
T _J Operating Junction Temperature	-65 to +150	°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.



Maximum Ratings Characteristics

(TA = 25°C unless otherwise specified)

Parameter	Symbol	Values	Units
DC Blocking Voltage	V _{RM}	60	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	30	A
Peak Forward Surge Current – 1/2 60hz	I _{FSM}	400	A
Peak Repetitive Reverse Surge Current (2uS-1Khz)	I _{RRM}	2.0	A
Typical Thermal Resistance (per leg)	R _{θJC}	2.0	°C / W
Maximum Rate of Voltage Change (at Rated VR)	dv/dt	10,000	V/uS
Operating Junction Temperature	T _J	-65 to 150	°C
Storage Junction Temperature	T _{STG}	-65 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	V _F *	0.42	0.47	Volts
	IF = 15A	TJ = 25°C		0.50	0.62	
	IF = 20A	TJ = 25°C		0.54	0.65	
	IF = 30A	TJ = 25°C		0.62	0.73	
		TJ = 125°C		0.586	0.64	
Instantaneous Reverse Current	VR = 60V	TJ = 25°C	I _R *	17	40	uA
		TJ = 125°C		11	20	mA
Junction Capacitance	V _R = 5V, f = 1MHz		C _J	264		pF

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

Characteristics Curves

(TA = 25°C unless otherwise specified)

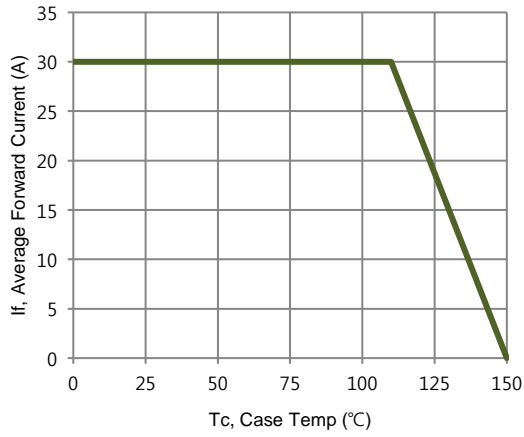


Figure 1 : Current Derating, Case

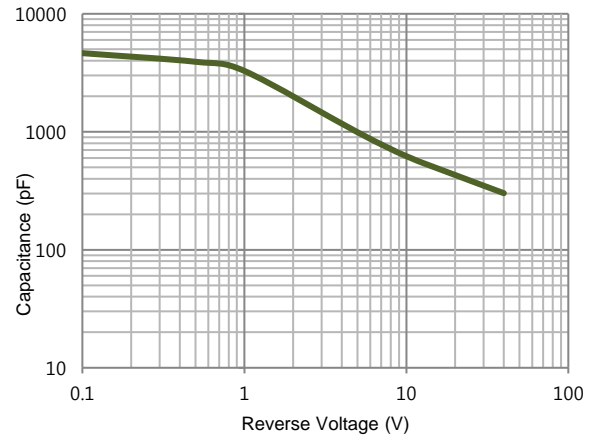


Figure 2 : Typical Junction Capacitance

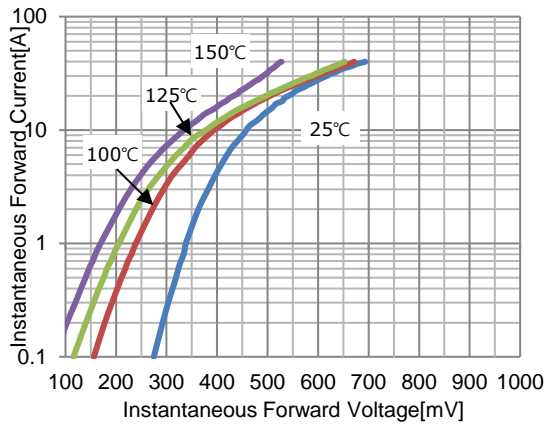


Figure 3 : Typical Forward Voltage

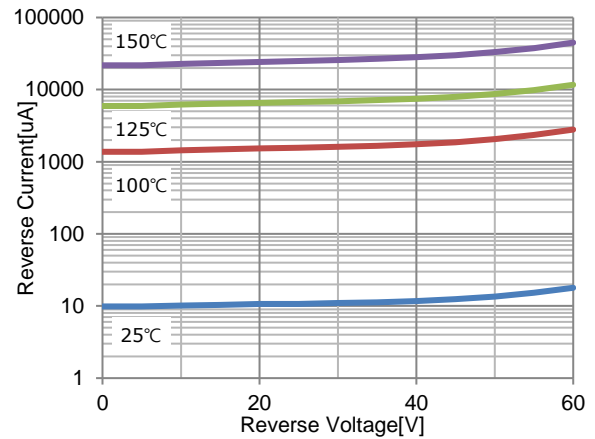


Figure 4 : Typical Reverse Current

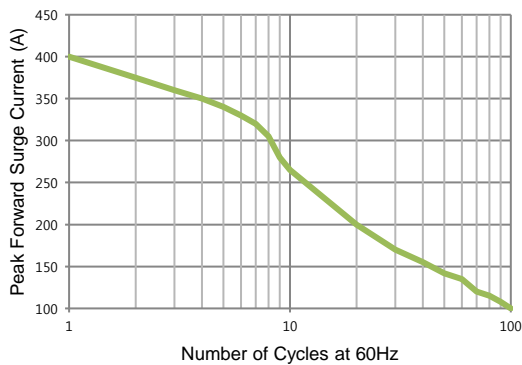
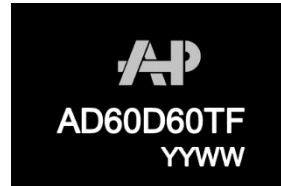


Figure 5 : Maximum Repetitive Surge Current

Ordering Information

Part No	Package	Packing	Finish	Halogen	Packing Unit
AD60D60TF	TO-247	Tube : 30pcs	Sn	Free	2,250pcs

Marking Layout



1ST Line : Company logo

2nd Line : Device name + PKG CODE

- TF : TO-247 PKG code

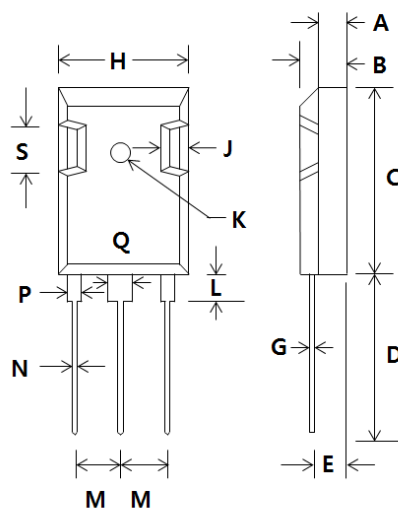
3rd Line : Date code

- YY : First two digits of calendar year

- WW : Last two digits of work week calendar

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	2.9 \varnothing	3.2 \varnothing
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	2016-08-17	Initial Brief Datasheet Release

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