

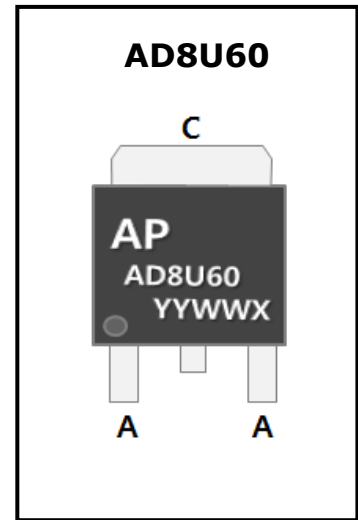
60V 8A ULTRA LOW VF TMOS Schottky

Characteristics Summary

Characteristics	Values	Units
IF(AV)	8	A
VRRM	60	V
VF TYP @ 3A, TJ = 25°C	0.47	V
@ 5A, TJ = 25°C	0.54	
@ 8A, TJ = 25°C	0.63	
IR _{MAX} @ TJ = 25°C	25	uA

Features

- Reduced low forward voltage drop (VF) ; better efficiency and cooler operation.
- Reduced high temperature reverse leakage; Increased reliability against thermal runaway failure in high temperature operation.
- Softest, fast switching capability
- 150°C Operating Junction Temperature
- Lead Free Finish, RoHS Compliant



Typical Applications

Device optimized for low forward voltage drop to suitable efficiency in general rectification applications.

- Boost Diode, Blocking Diode, Rectifier, Re-circulating Diode, Reverse protection diode,

Maximum Ratings Characteristics - (TA = 25°C unless otherwise specified)

Parameter	Symbol	Values	Units
DC Blocking Voltage	VRM	60	V
Working Peak Reverse Voltage	VRWM		V
Peak Repetitive Reverse Voltage	VRRM		V
Average Rectified Forward Current (Rated VR-20Khz Square Wave) – 50% duty cycle	ID	8	A
Non-Repetitive Peak Forward Surge Current 8.3ms	IFSM	100	A
Typical Thermal Resistance Junction to Ambient (Note 1)	RθJC	68	°C / W
Operating Junction Temperature	TJ	-40 to +150	°C
Storage Junction Temperature	TSTG	-40 to +150	

Note 1 : FR-4 PCB, 2 oz Copper. Minimum recommended pad layout

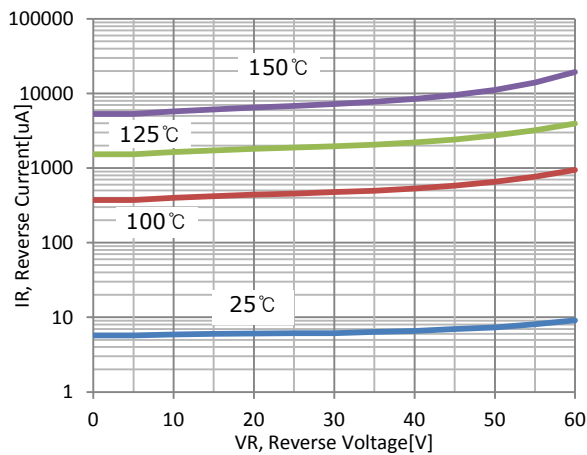
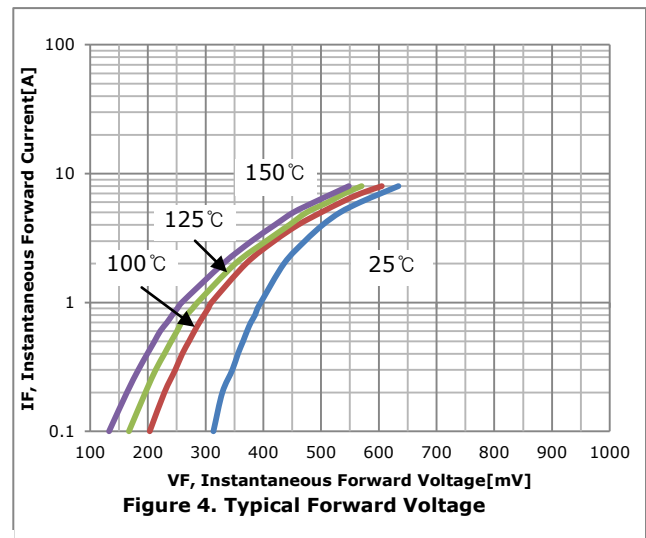
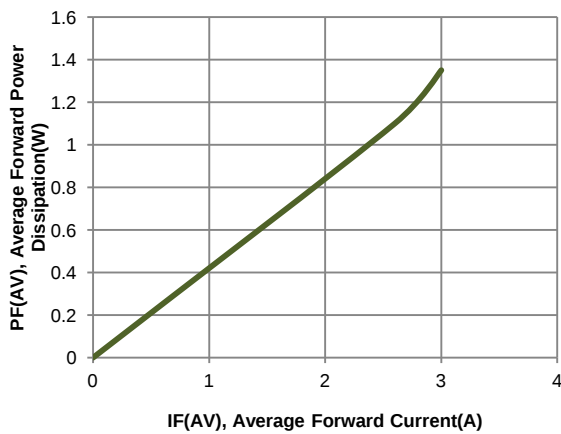
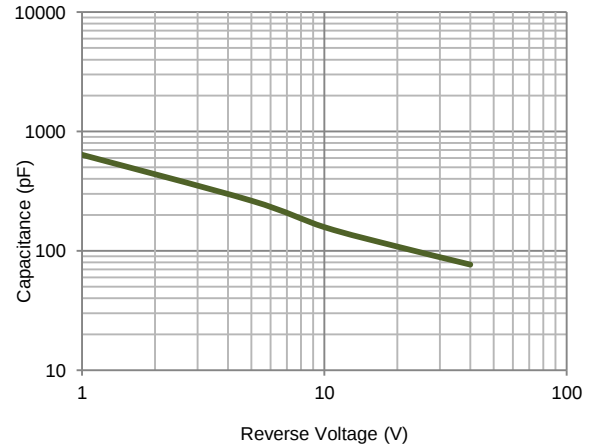
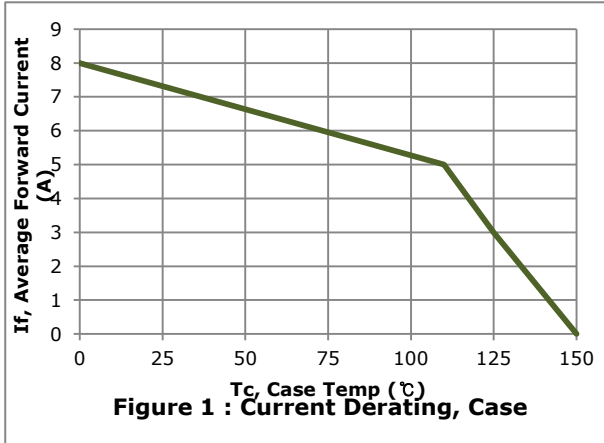
Electrical Characteristics - (TA = 25°C unless otherwise specified)

Parameter	Test Conditions		Symbol	Typ.	Max.	Units
Forward Voltage	IF = 3 A	TJ = 25°C	VF*	0.47	0.53	V
	IF = 5 A			0.54	0.60	
	IF = 8 A			0.63	0.68	
	IF = 5 A	TJ = 125°C		0.50	-----	
Reverse Current	VR = 60V	TJ = 25°C	IR*	3	25	uA
		TJ = 125°C		4	10	mA
Junction Capacitance	VR = 5V, f = 1MHz		CJ	264		pF

* Short duration pulse test used to minimize self-heating effect.

Characteristics Curves

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



Ordering Information

Part No	Package	Packing	Finish	Halogen	Packing Unit
AD8U60D	TO252-3L	13" Reel & Tape	Sn	Free	2,500ea

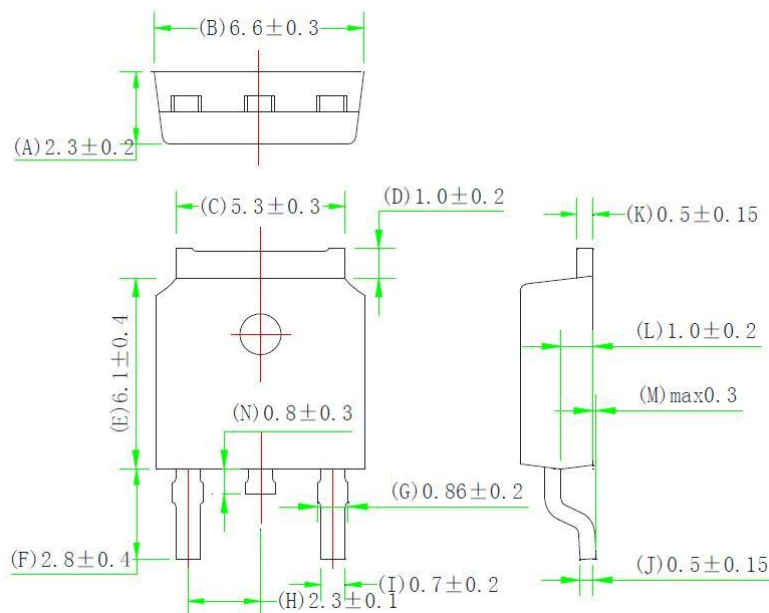
Marking Layout

1ST Line : Device Name

2nd Line : Date Code

- YY : Last two digits of calendar year
- WW : Work week code
- C : Assembly site

Package Dimensions



Revision History

No	Date	Contents
0	2021-03-05	Initial Brief Datasheet Release

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AP Semiconductor Co., Ltd

Contact. Tel **82.70.4693.2299** FAX **82.70.4000.4009**

E-mail: **sales@apsemi.com**

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