



Semi
Advanced Power Semiconductor

100V 10A Ultra Low VF Schottky AD10U100

Feature

- Ultra Low VF Trench MOS Schottky
- High Efficiency & Low Thermal Emission
- TO-252 and TO-251 Package Available

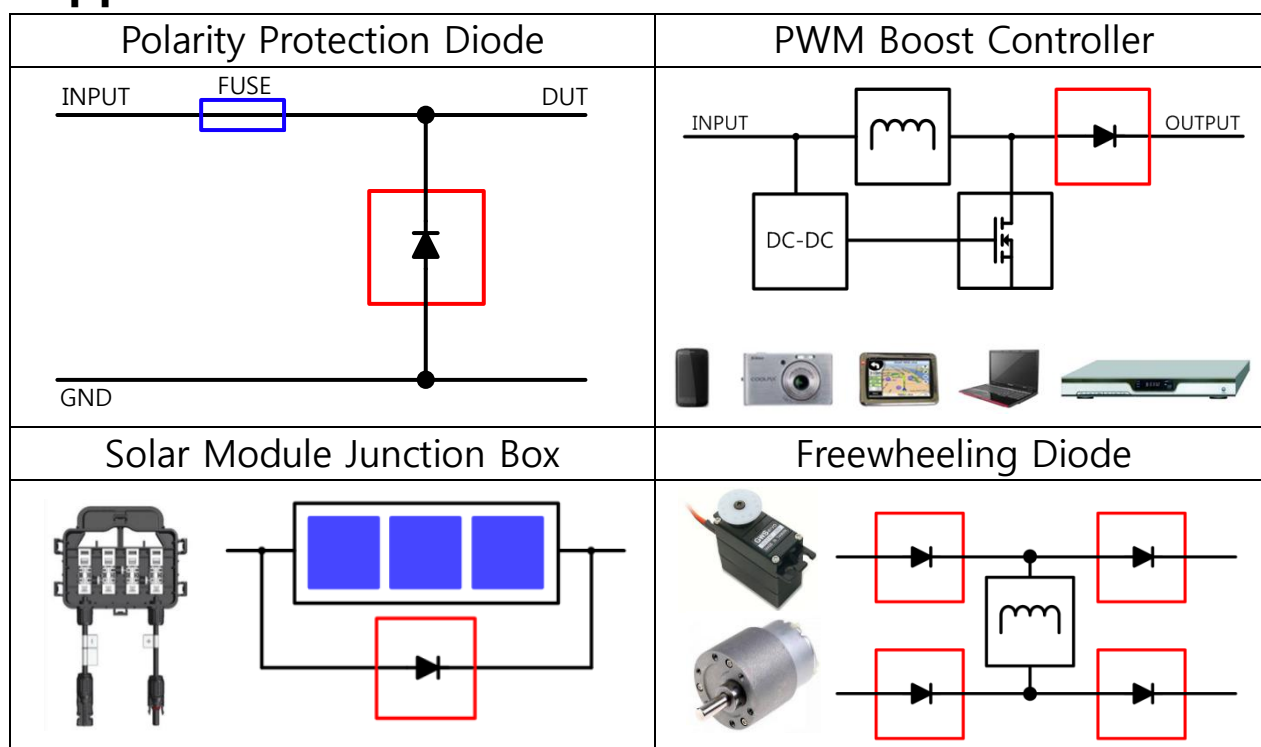


Comparison Table @ IF = 10A, Tj = 25°C

Characteristics	MOS Schottky			Planar Schottky	
	AD10U100	PX10X100ES	MXXX10100	SX10XX10	SXX10C100F
Package	TO-252	TO-252	ITO-220AC	TO-277A	TO-220F
Forward Voltage	0.59V	0.73V	0.70V	0.80V	0.85V
Power Dissipation	5.7W	7.3W	7.0W	8.0W	8.5W
Efficiency	100%	78%	81%	71%	67%

※ AD10U100 have 20% better efficiency than other Schottky devices.

Application



[DATASHEET LINK](#), [APSemi Catalogue](#)



Diode Line-up

I_{FAV}	Part No.	$V_R(V)$	$MaxV_{F@25^{\circ}C}(V)$	$Max I_R(\mu A)$	Package
3	AD360AF	60	0.51	25	SMAF/DO201AD
5	AD5100	100	TBD		SMAF
10	AD10D100	100	0.67	40	TO220F
	AD10D200	200	0.82	40	TO220F
	AD10D300	300	0.83	50	TO220F
	AD10S100	100	0.62	60	TO220F
	AD10U100	100	0.62	60	TO251/TO252
15	AD15S150	150	1.02	50	TO220F
	AD15U200	200	0.91	50	TO252
20	AD20D100	100	0.61	40	TO220F
	AD20D200	200	0.8	40	TO220F
	AD20S70	70	0.61	50	TO277
	AD20S100	100	0.71	40	TO220F
	AD20S150	150	0.93	40	TO220F
	AD2060T	60	0.57	40	TO277
30	AD30D100	100	0.68	30	TO220F
	AD30D200	200	0.9	40	TO220F
	AD30D200TF	200	0.86	40	TO247
40	AD40D60	60	0.65	40	TO220F
	AD40D100	100	0.75	30	TO220F
	AD40D100TF	100	0.71	50	TO247
	AD40D150	150	0.94	40	TO220F
	AD60D60TF	60	0.73	40	TO247