



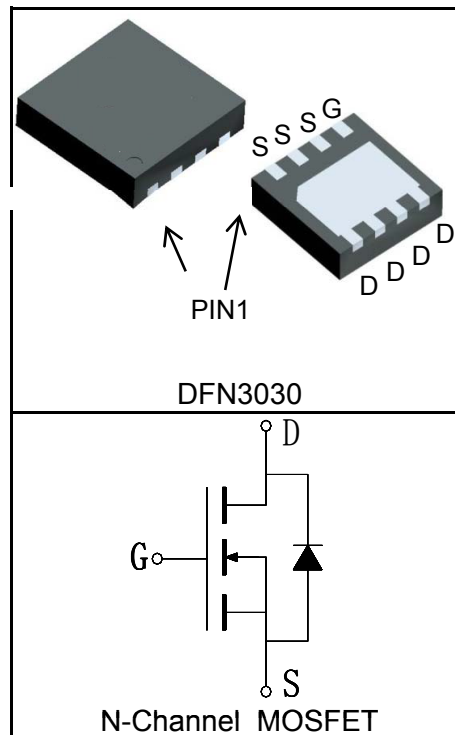
Features

- 30V/40A,
 $R_{DS(ON)} = 5.5m\Omega(Typ.)@V_{GS}=10V$
 $R_{DS(ON)} = 7m\Omega(Typ.)@V_{GS}=4.5V$
- Excellent $Q_g \times R_{DS(on)}$ product(FOM)
- Reliable and Rugged
- 100% avalanche tested
- Lead Free and Green Devices Available (RoHS Compliant)

Applications

- Switching Application Systems
- Li-battery protection
- Synchronous rectification

Pin Description



Absolute Maximum Ratings

Symbol	Parameter		Rating	Unit
Common Ratings (T _C =25°C Unless Otherwise Noted)				
V _{DSS}	Drain-Source Voltage		30	V
V _{GSS}	Gate-Source Voltage		±20	
T _J	Maximum Junction Temperature		150	°C
T _{STG}	Storage Temperature Range		-55 to 150	°C
I _S	Diode Continuous Forward Current	T _C =25°C	40	A
Mounted on Large Heat Sink				
I _{DP} ^①	300μs Pulse Drain Current Tested	T _C =25°C	160	A
I _D ^②	Continuous Drain Current@T _C (V _{GS} =10V)	T _C =25°C	40	A
		T _C =100°C	25	
	Continuous Drain Current@T _A (V _{GS} =10V) ^③	T _A =25°C	13	
		T _A =70°C	11	
P _D	Maximum Power Dissipation@T _C	T _C =25°C	31	W
		T _C =100°C	13	
	Maximum Power Dissipation@T _A ^③	T _A =25°C	3.5	
		T _A =70°C	2.3	