

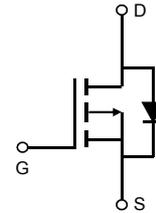
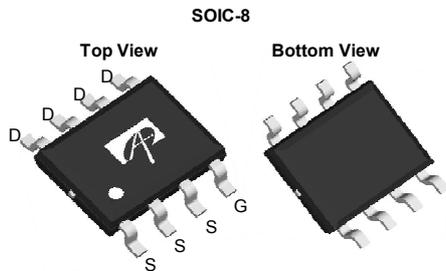
General Description

- The AO4413 uses advanced trench technology to provide excellent $R_{DS(ON)}$, and ultra-low low gate charge with a 25V gate rating. This device is suitable for use as a load switch or in PWM applications.
- RoHS and Halogen-Free Compliant

Product Summary

V_{DS}	-30V
I_D (at $V_{GS}=-20V$)	-15A
$R_{DS(ON)}$ (at $V_{GS}=-20V$)	< 7m Ω
$R_{DS(ON)}$ (at $V_{GS} = -10V$)	< 8.5m Ω

100% UIS Tested
100% R_g Tested



Absolute Maximum Ratings $T_A=25^\circ C$ unless otherwise noted

Parameter	Symbol	Maximum	Units
Drain-Source Voltage	V_{DS}	-30	V
Gate-Source Voltage	V_{GS}	± 25	V
Continuous Drain Current	I_D	$T_A=25^\circ C$	-15
		$T_A=70^\circ C$	-12.8
Pulsed Drain Current ^C	I_{DM}	-120	A
Avalanche Current ^C	I_{AS}, I_{AR}	50	A
Avalanche energy $L=0.1mH$ ^C	E_{AS}, E_{AR}	125	mJ
Power Dissipation ^B	P_D	$T_A=25^\circ C$	3.1
		$T_A=70^\circ C$	2
Junction and Storage Temperature Range	T_J, T_{STG}	-55 to 150	$^\circ C$

Thermal Characteristics

Parameter	Symbol	Typ	Max	Units
Maximum Junction-to-Ambient ^A	$R_{\theta JA}$	31	40	$^\circ C/W$
Maximum Junction-to-Ambient ^{A,D}		Steady-State	59	75
Maximum Junction-to-Lead	$R_{\theta JL}$	16	24	$^\circ C/W$