

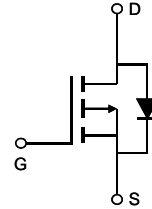
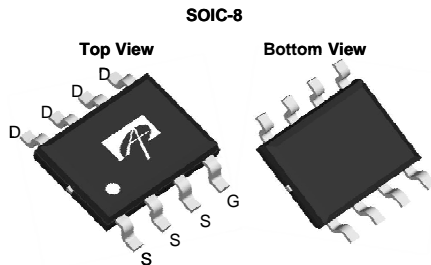
General Description

The AO4449 uses advanced trench technology to provide excellent RDS(ON), and ultra-low low gate charge. This device is suitable for use as a load switch or in PWM applications.

Product Summary

V_{DS}	-30V
I_D (at $V_{GS}=-10V$)	-7A
$R_{DS(ON)}$ (at $V_{GS}=-10V$)	< 34m Ω
$R_{DS(ON)}$ (at $V_{GS} = -4.5V$)	< 54m Ω

100% UIS Tested
 100% R_g Tested


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

Parameter	Symbol	Maximum	Units
Drain-Source Voltage	V_{DS}	-30	V
Gate-Source Voltage	V_{GS}	± 20	V
Continuous Drain Current	I_D	$T_A=25^\circ\text{C}$	-7
		$T_A=70^\circ\text{C}$	-5.5
Pulsed Drain Current ^C	I_{DM}	-40	A
Avalanche Current ^C	I_{AS}, I_{AR}	23	A
Avalanche energy $L=0.1\text{mH}$ ^C	E_{AS}, E_{AR}	26	mJ
Power Dissipation ^B	P_D	$T_A=25^\circ\text{C}$	3.1
		$T_A=70^\circ\text{C}$	2
Junction and Storage Temperature Range	T_J, T_{STG}	-55 to 150	$^\circ\text{C}$

Thermal Characteristics

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