POWER-N

P-Channel Enhancement Mode Power MOSFET

DESCRIPTION

The PN9435 uses advanced trench technology to provide excellent $R_{\rm DS(ON)}$, low gate charge and operation with gate voltages as low as 4.5V. This device is suitable for use as a load switch or in PWM applications.

GENERAL FEATURES

• $V_{DS} = -30V, I_{D} = -5.1A$

 $R_{DS(ON)}$ < 105m Ω @ V_{GS} =-4.5V

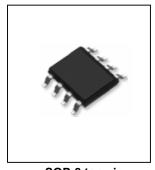
 $R_{DS(ON)}$ < 55m Ω @ V_{GS} =-10V

- High Power and current handing capability
- Lead free product is acquired
- Surface Mount Package

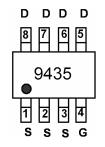
Application

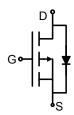
- ●PWM applications
- Load switch
- Power management

PN9435



SOP-8 top view





pin Assignment

Schematic diagram

Absolute Maximum Ratings (TA=25℃unless otherwise noted)

Parameter	Symbol	Limit	Unit
Drain-Source Voltage	V _{DS}	-30	V
Gate-Source Voltage	V _G s	±20	V
Drain Current-Continuous	I _D	-5.1	Α
Drain Current-Pulsed (Note 1)	I _{DM}	-20	Α
Maximum Power Dissipation	P _D	2	W
Operating Junction and Storage Temperature Range	T_{J}, T_{STG}	-55 To 150	$^{\circ}$

Thermal Characteristic

Thermal Resistance, Junction-to-Ambient (Note 2)	$R_{\theta JA}$	50	°C/W

Electrical Characteristics (TA=25°C unless otherwise noted)

Parameter	Symbol	Condition	Min	Тур	Max	Unit
Off Characteristics					·	
Drain-Source Breakdown Voltage	BV _{DSS}	V _{GS} =0V I _D =-250μA	-30	-33	-	V

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