Description

The TCS1344P01 uses advanced trench technology to provide excellent $R_{DS(ON)}$ and low gate charge. It can be used in a wide variety of applications.

General Features

- V_{DS} = -30V, I_D = -44A

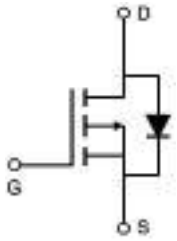
  $R_{DS(ON)}$ TYP 9mΩ @ V_{GS}=-10V

  $R_{DS(ON)}$ TYP14.7mΩ @V_{GS}=-4.5V

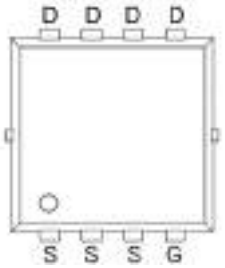
- High Power and current handing capability
- Lead free product is acquired
- Surface Mount Package

Application

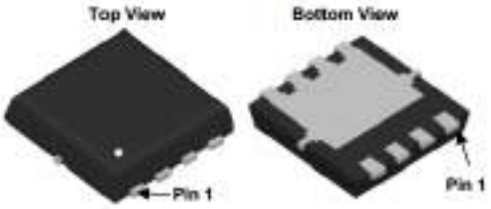
- DC-DC converter
- Load switch
- Power management



Schematic diagram



pin assignment



PDFN3x3-8L

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

Parameter	Symbol	Rating	Unit
Drain-Source Voltage	V_{DS}	-30	V
Gate-Source Voltage	V_{GS}	±20	V
Drain Current-Continuous	I_D	-44	A
Drain Current-Continuous (TC=70℃)	I_D	-35	A
Pulsed Drain Current (Note 1)	I_{DM}	-150	A
Maximum Power Dissipation	P_D	33.7	W
Operating Junction and Storage Temperature Range	T_J, T_{STG}	-55 To 150	℃

Thermal Characteristic

Thermal Resistance, Junction-to-Case	$R_{\theta JC}$	3.7	℃/W
Thermal Resistance, Junction-to-Ambient (Note 2)	$R_{\theta JA}$	66	℃/W