

Description

The TCS1315P01 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

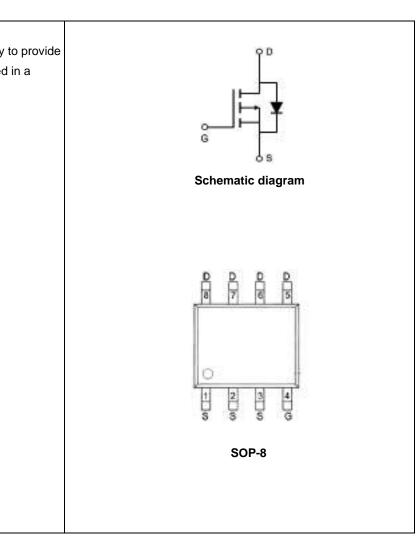
• V_{DS} = -30V, I_D = -15A

 $R_{DS(ON)} < 11m\Omega @ V_{GS}=-10V$ $R_{DS(ON)} < 17m\Omega @ V_{GS}=-4.5V$

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

Application

- PWM applications
- Load switch
- Power management



Absolute Maximum Ratings (TA=25°C unless otherwise noted)

Parameter	Symbol	Rating	Unit
Drain-Source Voltage	V _{DS}	-30	V
Gate-Source Voltage	V _{GS}	±25	V
Drain Current-Continuous	ID	-15	A
Pulsed Drain Current (Note 1)	I _{DM}	-60	А
Maximum Power Dissipation	Po	3	W
Operating Junction and Storage Temperature Range	T _J ,T _{STG}	-55 To 150	°C

Thermal Characteristic

Thermal Resistance, Junction-to-Ambient (Note 2)	R _{eJA}	41.7	°C/W
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