

Description

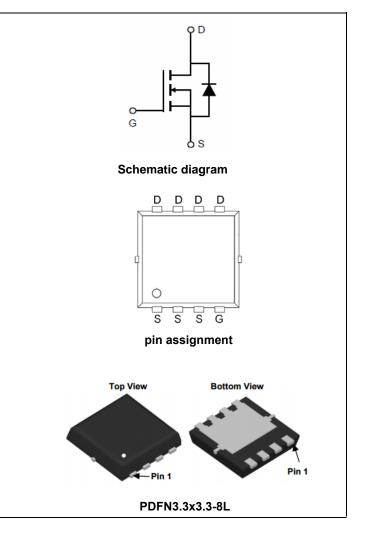
The TCS1335 uses advanced trench technology and design to provide excellent $R_{DS(ON)}$ with low gate charge. It can be used in a wide variety of applications.

General Features

- V_{DS} =30V,I_D =35A
 R_{DS(ON)} <10mΩ @ V_{GS}=10V
 R_{DS(ON)} <14mΩ @ V_{GS}=4.5V
- High density cell design for ultra low Rdson
- Fully characterized Avalanche voltage and current
- Good stability and uniformity with high EAS
- Excellent package for good heat dissipation
- Special process technology for high ESD capability

Application

- DC/DC Converters in Computing, Servers, and POL
- Isolated DC/DC Converters in Telecom and Industrial
- Uninterruptible Power Supply



Absolute Maximum Ratings (T_c=25[°]Cunless otherwise noted)

Parameter	Symbol	Limit	Unit
Drain-Source Voltage	Vds	30	V
Gate-Source Voltage	V _{GS}	±20	V
Drain Current-Continuous(Tc=25℃)	Ι _D	35	А
Drain Current-Continuous(T _A =25°C)	I _{DSM}	11	A
Pulsed Drain Current ^(Note 1)	I _{DM}	80	A
Maximum Power Dissipation	P _D	3.1	W
Avalanche Current	las	26	А
Single pulse avalanche energy (Note 5)	E _{AS}	32	mJ
Operating Junction and Storage Temperature Range	T_J, T_{STG}	-55 To 150	°C

Thermal Characteristic

Thermal Resistance, Junction-to-Ambient (Note 2)	R _{θJA}	40	°C/W
Thermal Resistance, Junction-to-Case, Steady State	$R_{ extsf{ heta}JC}$	4.2	°C/W