

Description

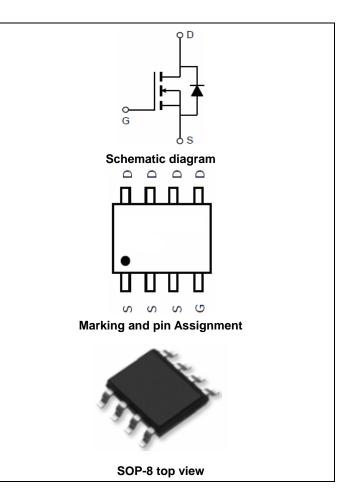
The TCS1415 uses advanced trench technology and design to provide excellent $R_{DS(ON)}$ with low gate charge. It can be used in a wide variety of applications.

General Features

- V_{DS} =40V, I_{D} =15A $R_{DS(ON)}$ <10mΩ @ V_{GS} =10V (Typ. 6.1 mΩ) $R_{DS(ON)}$ <15mΩ @ V_{GS} =4.5V (Typ. 11.4 mΩ)
- High density cell design for ultra low Rdson
- Fully characterized avalanche voltage and current
- Good stability and uniformity with high E_{AS}
- Excellent package for good heat dissipation
- Special process technology for high ESD capability

Application

- Load switching
- Hard switched and high frequency circuits
- Uninterruptible power supply



Package Marking and Ordering Information

Device Marking	Device	Device Package	Reel Size	Tape width	Quantity
	TCS1415-H	SOP-8	Ø330mm	12mm	2500 units

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

Parameter	Symbol	Limit	Unit
Drain-Source Voltage	Vos	40	V
Gate-Source Voltage	Vgs	±20	V
Drain Current-Continuous	I _D	15	А
Drain Current-Continuous(T _C =100 °C)	I _D (100°C)	10.6	А
Pulsed Drain Current	I _{DM}	70	А
Maximum Power Dissipation	P _D	3.1	W
Operating Junction and Storage Temperature Range	T _J ,T _{STG}	-55 To 150	°C

Thermal Characteristic

Thermal Resistance, Junction-to-Ambient (Note 2)	$R_{\theta JA}$	40	°C/W	1
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