



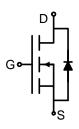
The TCS4400 uses advanced trench technology to provide excellent $R_{DS(ON)}$, low gate charge and operation with gate voltages as low as 2.5V. This device is suitable for use as a Battery protection or in other Switching application.

GENERAL FEATURES

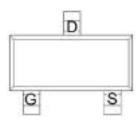
- $V_{DS} = 40V, I_D = 3A$ $R_{DS(ON)} < 45m\Omega @ V_{GS} = 10V$
- High Power and current handing capability
- Lead free product is acquired
- Surface Mount Package

Application

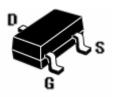
- Battery Switch
- DC/DC Converter



Schematic diagram



Marking and pin Assignment



SOT-23 top view

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

Parameter	Symbol	Limit	Unit	
Drain-Source Voltage	VDS	40	V	
Gate-Source Voltage	Vgs	±20	V	
Drain Current-Continuous	I _D	3	Α	
Drain Current-Pulsed (Note 1)	I _{DM}	10	Α	
Maximum Power Dissipation	P _D	1.7	W	
Operating Junction and Storage Temperature Range	T_{J}, T_{STG}	-55 To 150	$^{\circ}$ C	

Thermal Characteristic

Thermal Resistance, Junction-to-Ambient (Note 2)	R _{0JA}	73.5	°C/W
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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	40	-	-	V
Zero Gate Voltage Drain Current	I _{DSS}	V _{DS} =40V,V _{GS} =0V	-	-	1	μA