

Description

The TCS1204 uses advanced trench technology and design to provide excellent $R_{DS(ON)}$ with low gate charge. It can be used in load switch and battery protection applications.

General Features

- ◆ $V_{DS} = -40V$, $I_D = -14A$
 $R_{DS(ON)}(Typ.) = 12m\Omega$ @ $V_{GS} = -4.5V$
 $R_{DS(ON)}(Typ.) = 8.5m\Omega$ @ $V_{GS} = -10V$
- ◆ High power and current handling capability
- ◆ Lead free product is acquired
- ◆ Surface mount package

Application

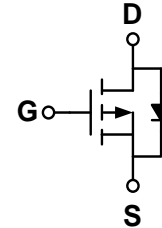
- ◆ Adapter switch
- ◆ Load switch
- ◆ Battery switch
- ◆ Motor drive control

Package

- ◆ SOP-8

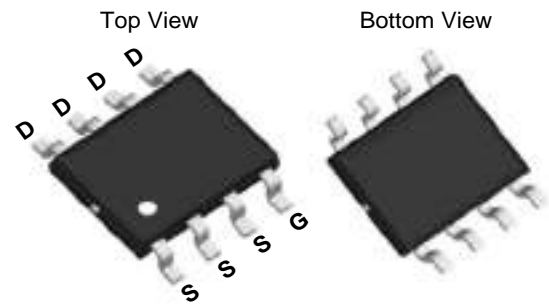


Schematic diagram



pin assignment

SOP-8



Ordering Information

Part Number	Storage Temperature	Package	Devices Per Reel
TCS1204_H	-55°C to +150°C	SOP-8	4000

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

parameter	symbol	limit	unit	
Drain-source voltage	V_{DS}	-40	V	
Gate-source voltage	V_{GS}	±20	V	
Continuous Drain Current	I_D	$T_C = 25^\circ C$	-14	A
		$T_C = 70^\circ C$	-11 ^{b,c}	
		$T_A = 25^\circ C$	-9.9 ^{b,c}	
		$T_A = 70^\circ C$	-7.9	
Pulsed Drain Current	I_{DP}	-80 ^a		
Continuous source-drain diode current	I_S	-4.5		