

Description

The TCS1116 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

- ◆ $V_{DS} = -100V$ $I_D = -16A$
 $R_{DS(ON)}(Typ.) = 150m\Omega$ @ $V_{GS} = -10V$
 $R_{DS(ON)}(Typ.) = 200m\Omega$ @ $V_{GS} = -4.5V$
 High power and current handling capability
- ◆ Lead free product is acquired
- ◆ Surface mount package

Application

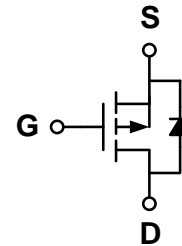
- ◆ Load switch

Package

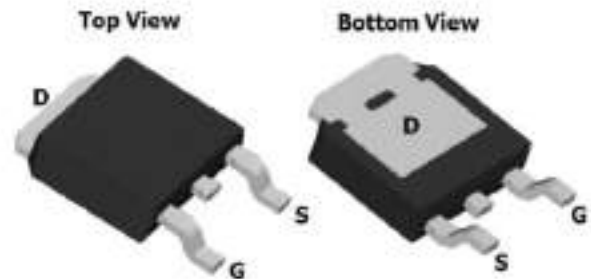
- ◆ TO-252-2L

100% UIS TESTED!
100% ΔV_{ds} TESTED!

Schematic diagram



Marking and pin assignment



Ordering Information

Part Number	Storage Temperature	Package	Devices Per Reel
TCS1116_TC	-55°C to +150°C	TO-252-2L	2500

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

parameter	symbol	limit	unit
Drain-source voltage	V_{DS}	-100	V
Gate-source voltage	V_{GS}	± 20	V
Continuous Drain Current	I_D	TC=25°C	-16
		TC=100°C	-9.8
Pulsed Drain Current	I_{DP}	-64	A
Avalanche Current	IAS	-16	A
Avalanche energy(L=0.5mH)	EAS	345	mJ
Maximum power dissipation	P_D	TC=25°C	150
		TC=100°C	100
Operating junction Temperature range	T_j	-55—150	°C