

Description

The TCS1262 has been designed to minimize the on-state resistance ($R_{DS(on)}$) and yet maintain superior switching performance, making it ideal for high efficiency power management applications.

General Features

- ◆ $V_{DS} = 60V$, $I_D = 340mA$
 $R_{DS(ON)}(Typ.) = 1.8\Omega @ V_{GS} = 10V$
 $R_{DS(ON)}(Typ.) = 2.4\Omega @ V_{GS} = 4.5V$
- ◆ High power and current handling capability
- ◆ Lead free product is acquired
- ◆ Surface mount package
- ◆ ESD Rating: 2000V HBM

Application

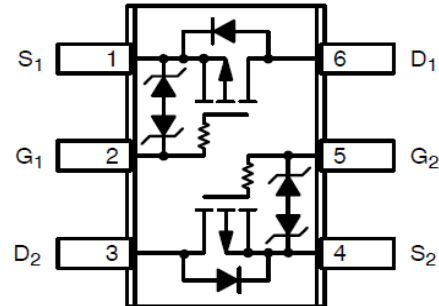
- ◆ PWM applications
- ◆ Load switch

Package

- ◆ SOT-363-B

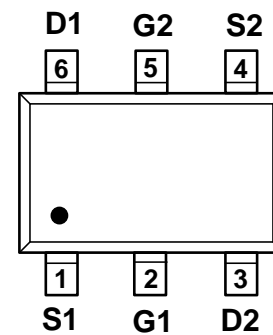


Schematic diagram



Marking and pin assignment

SOT-363-B
(TOP VIEW)



Ordering Information

Part Number	Storage Temperature	Package	Devices Per Reel
TCS1262_C	-55°C to +150°C	SOT-363-B	3000

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

parameter	symbol	limit	unit
Drain-source voltage	V_{DS}	60	V
Gate-source voltage	V_{GS}	±20	V
Drain current-continuous ^a @ $T_j = 125^\circ C$ -pulse ^b	I_D	0.34	A
	I_{DM}	0.3	A
Maximum power dissipation	P_D	0.15	W
Operating junction Temperature range		T_j	-55—150 °C

Notes:

- a. surface mounted on FR4 board, $t \leq 10\text{sec}$
- b. pulse test: pulse width $\leq 300\mu s$, duty $\leq 2\%$