

## Features

- Low  $R_{DS(on)}$  @  $V_{GS}=-10V$
- -5V Logic Level Control
- P Channel SOT23 Package
- Pb-Free, RoHS Compliant

$V_{(BR)DSS}$	$R_{DS(ON)}$ Typ	$I_D$ Max
-60V	150m $\Omega$ @ 10V	-2A
	200m $\Omega$ @ 4.5V	

## Applications

- Load Switch
- Switching Circuits
- High Speed line Driver



## Order Information

-60V/-2A P Channel Advanced Power MOSFET

SOT23

Product	Package	Marking	Packing
TCS1162_C	SOT23		3000PCS/Reel

## Absolute Maximum Ratings

Stresses exceeding Maximum Ratings may damage the device. Maximum Ratings are stress ratings only. Functional operation above the Recommended Operating Conditions is not implied. Extended exposure to stresses above the Recommended Operating Conditions may affect device reliability.

Symbol	Parameter	Rating	Unit
<b>Common Ratings (<math>T_A=25^\circ\text{C}</math> Unless Otherwise Noted)</b>			
$V_{GS}$	Gate-Source Voltage	$\pm 20$	V
$V_{(BR)DSS}$	Drain-Source Breakdown Voltage	-60	V
$T_J$	Maximum Junction Temperature	150	$^\circ\text{C}$
$T_{STG}$	Storage Temperature Range	-50 to 150	$^\circ\text{C}$
<b>Mounted on Large Heat Sink</b>			
$I_{DM}$	Pulse Drain Current Tested①	$T_A=25^\circ\text{C}$	-8 A
$I_D$	Continuous Drain Current	$T_A=25^\circ\text{C}$	-2 A
		$T_A=70^\circ\text{C}$	-1.6 A
$P_D$	Maximum Power Dissipation	$T_A=25^\circ\text{C}$	1 W
		$T_A=70^\circ\text{C}$	0.8 W
$R_{\theta JA}$	Thermal Resistance Junction-Ambient	125	$^\circ\text{C/W}$