

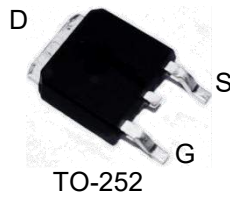
1.Features

- ◆ 20V MOSFET technology
- ◆ Low on-state resistance
- ◆ Fast switching
- ◆ $V_{GS} \pm 12V$

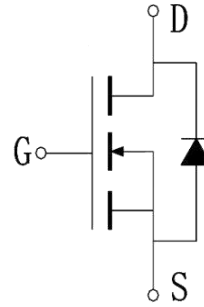
V_{DS}	$R_{DS(on)}$ Typ.	I_D Max.
20V	3.0mΩ @ 7.4V	90A
	3.3mΩ @ 4.5V	
	4.5mΩ @ 2.5V	

2.Applications

- ◆ Power Switching Application
- ◆ Load Switching



TO-252
Pin Description



Schematic Diagram

3.Package Marking and Ordering Information

Part no.	Marking	Package	PCS/Reel	PCS/CTN.
TCS1290N_TC		TO-252	2,500	25,000

4.Absolute Max Ratings at $T_a=25^\circ C$ (Note1)

Parameter	Symbol	Maximum	Units
Drain to Source Voltage	V_{DSS}	20	V
Gate to Source Voltage	V_{GSS}	± 12	V
Drain Current (DC)	I_D	90	A
Drain Current (Pulse), $PW \leq 300\mu s$	I_{DP}	243	A
Total Dissipation	P_D	83	W
Avalanche Energy, Single Pulsed	E_{AS}	240	mJ
Junction Temperature	T_j	150	$^\circ C$
Storage Temperature	T_{stg}	-55 to +150	$^\circ C$

Note 1: Stresses exceeding those listed in the Maximum Ratings table may damage the device. If any of these limits are exceeded, device functionality should not be assumed, damage may occur and reliability may be affected.