

IRF630

N-channel mosfet transistor



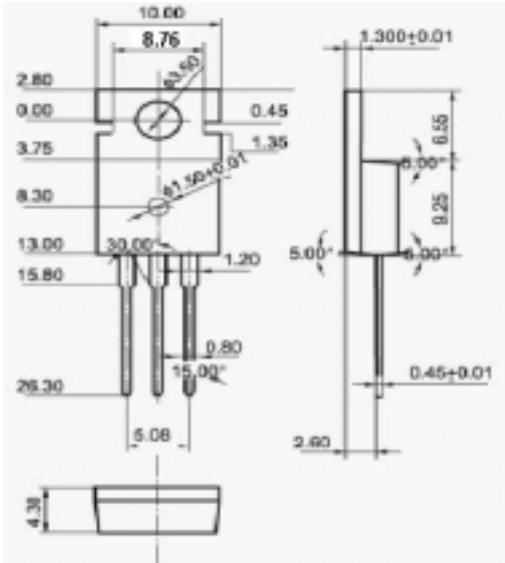
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◆ Features

- With TO-220 package
- Low on-state and thermal resistance
- Fast switching
- $V_{DSS}=200V$; $R_{DS(ON)} \leq 0.4 \Omega$; $I_D=9A$
- 1.gate 2.drain 3.source

◆ Absolute Maximum Ratings Tc=25

SYMBOL	PARAMETER	RATING	UNIT
V_{DSS}	Drain-source voltage ($V_{GS}=0$)	200	V
V_{GS}	Gate-source voltage	± 20	V
I_D	Drain Current-continuous@ TC=25	9	A
P_{tot}	Total Dissipation@TC=25	74	W
T_j	Max. Operating Junction temperature	150	
T_{stg}	Storage temperature	-65~150	



TO-220

◆ Electrical Characteristics Tc=25

SYMBOL	PARAMETER	CONDITIONS	MIN	MAX	UNIT
$V_{(BR)DSS}$	Drain-source breakdown voltage	$V_{GS}=0$; $I_D=0.25mA$	200		V
$V_{GS(TH)}$	Gate threshold voltage	$V_{DS}=V_{GS}$; $I_D=1mA$	2	4	V
$R_{DS(ON)}$	Drain-source on-stage resistance	$V_{GS}=10V$; $I_D=5.4A$		400	m Ω
I_{GSS}	Gate source leakage current	$V_{GS}= \pm 20V$; $V_{DS}=0$		± 100	nA
I_{DSS}	Zero gate voltage drain current	$V_{DS}=200V$; $V_{GS}=0$		10	μA
V_{SD}	Diode forward voltage	$I_F=9A$; $V_{GS}=0$		1.2	V