

N-Channel MOSFET Transistor

FEATURES

- Drain Current $-I_D = 3A @ T_C = 25^\circ C$
- Drain Source Voltage $-V_{DSS} = 1200V(\text{Min})$
- Static Drain-Source On-Resistance
 $-R_{DS(on)} = 4.5\Omega(\text{Max}) @ V_{GS} = 10V$

APPLICATIONS

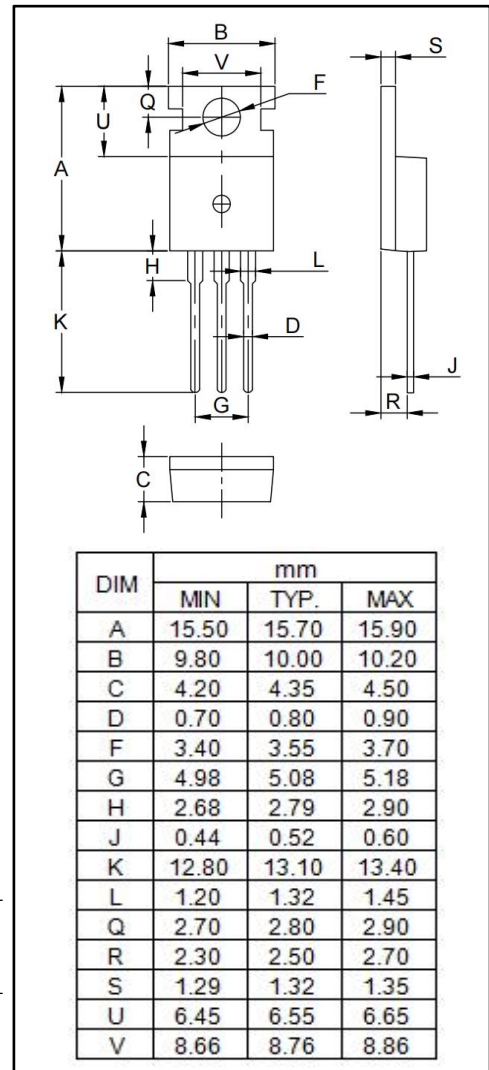
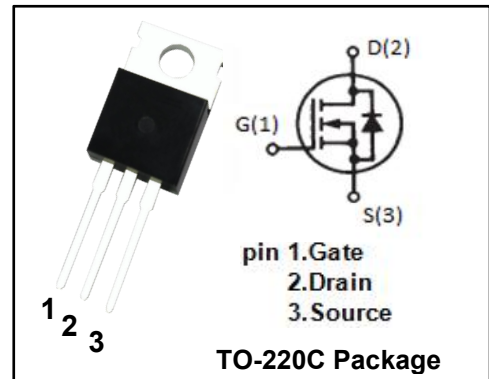
- Switching

Absolute Maximum Ratings($T_C = 25^\circ C$)

SYMBOL	PARAMETER	VALUE	UNIT
V_{DSS}	Drain-Source Voltage	1200	V
V_{GS}	Gate-Source Voltage	± 20	V
I_D	Drain Current-Continuous	3.0	A
I_{DM}	Drain Current-Single Pulsed	12	A
P_D	Total Dissipation @ $T_C = 25^\circ C$	200	W
T_j	Max. Operating Junction Temperature	150	$^\circ C$
T_{stg}	Storage Temperature	-55~150	$^\circ C$

THERMAL CHARACTERISTICS

SYMBOL	PARAMETER	MAX	UNIT
$R_{th(j-c)}$	Thermal Resistance Junction-to-Case	0.62	$^\circ C/W$



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ELECTRICAL CHARACTERISTICS (T_c=25°C)

SYMBOL	PARAMETER	CONDITIONS	MIN	TYP	MAX	UNIT
BV _{DSS}	Drain-Source Breakdown Voltage	V _{GS} =0V; I _D = 1.0mA	1200	-	-	V
V _{GS(th)}	Gate Threshold Voltage	V _{DS} =V _{GS} ; I _D = 0.25mA	2.5	-	5.0	V
R _{DS(on)}	Drain-Source On-Resistance	V _{GS} =10V; I _D = 1.5A	-	-	4.5	Ω
I _{GSS}	Gate-Source Leakage Current	V _{GS} = ±20V; V _{DS} =0V	-	-	±100	nA
I _{DSS}	Drain-Source Leakage Current	V _{DS} = 1200V; V _{GS} = 0V	-	-	25	μA
V _{SD}	Diode forward voltage	I _{SD} = 3A; V _{GS} = 0V	-	-	1.5	V

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