

isc N-Channel MOSFET Transistor

FDP2572

• FEATURES

- With TO-220 packaging
- Drain Source Voltage-
: $V_{DSS} \geq 150V$
- Static drain-source on-resistance:
 $R_{DS(on)} \leq 54m\Omega @ V_{GS}=10V$
- 100% avalanche tested
- Minimum Lot-to-Lot variations for robust device performance and reliable operation

• APPLICATIONS

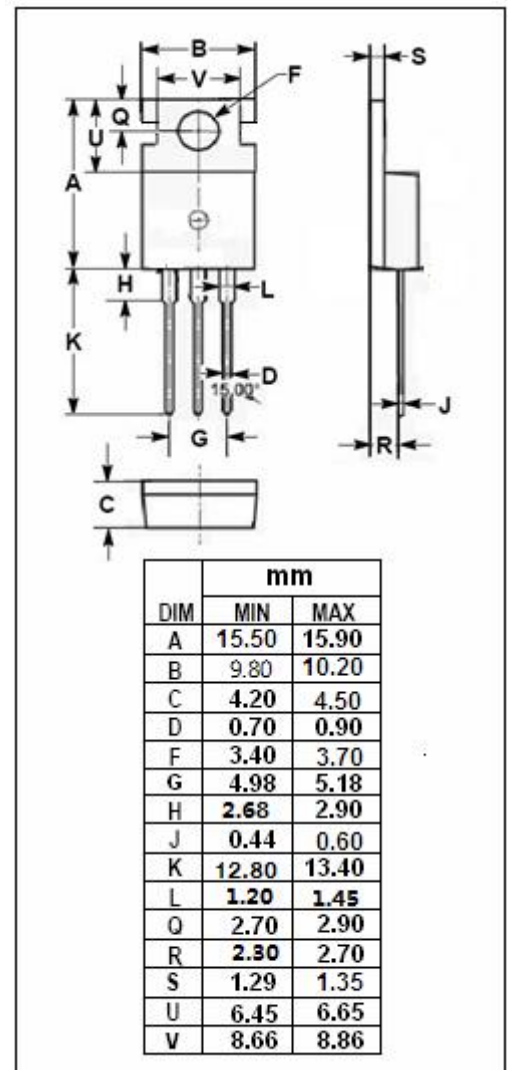
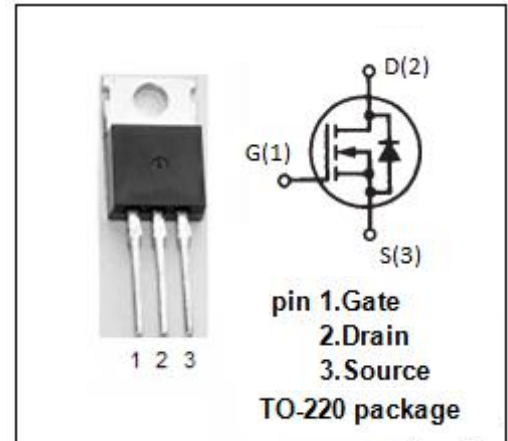
- Power supply
- Switching applications

• ABSOLUTE MAXIMUM RATINGS($T_a=25^\circ C$)

SYMBOL	PARAMETER	VALUE	UNIT
V_{DSS}	Drain-Source Voltage	150	V
V_{GSS}	Gate-Source Voltage	± 20	V
I_D	Drain Current-Continuous;@ $T_c=25^\circ C$	29	A
P_D	Total Dissipation	135	W
T_j	Operating Junction Temperature	-55~175	$^\circ C$
T_{stg}	Storage Temperature	-55~175	$^\circ C$

• THERMAL CHARACTERISTICS

SYMBOL	PARAMETER	MAX	UNIT
$R_{th(ch-c)}$	Channel-to-case thermal resistance	1.11	$^\circ C/W$



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ELECTRICAL CHARACTERISTICS

T_c=25°C unless otherwise specified

SYMBOL	PARAMETER	CONDITIONS	MIN	TYP	MAX	UNIT
BV _{DSS}	Drain-Source Breakdown Voltage	V _{GS} =0V; I _D = 250uA	150			V
V _{GS(th)}	Gate Threshold Voltage	V _{DS} =V _{GS} ; I _D =250uA	2		4	V
R _{DS(on)}	Drain-Source On-Resistance	V _{GS} = 10V; I _D = 9A			54	mΩ
I _{GSS}	Gate-Source Leakage Current	V _{GS} =±20V; V _{DS} = 0V			±100	nA
I _{DSS}	Drain-Source Leakage Current	V _{DS} = 120V; V _{GS} = 0V V _{DS} = 120V; V _{GS} = 0V; T _J =150°C			1 250	μA
V _{SDF}	Diode forward voltage	I _{SD} = 9A, V _{GS} = 0 V			1.25	V

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