

isc N-Channel MOSFET Transistor

FDP2710

• FEATURES

- With TO-220 packaging
- Drain Source Voltage-
: $V_{DS} \geq 250V$
- Static drain-source on-resistance:
 $R_{DS(on)} \leq 42.5m\Omega @ V_{GS}=10V$
- 100% avalanche tested
- Minimum Lot-to-Lot variations for robust device performance and reliable operation

• APPLICATIONS

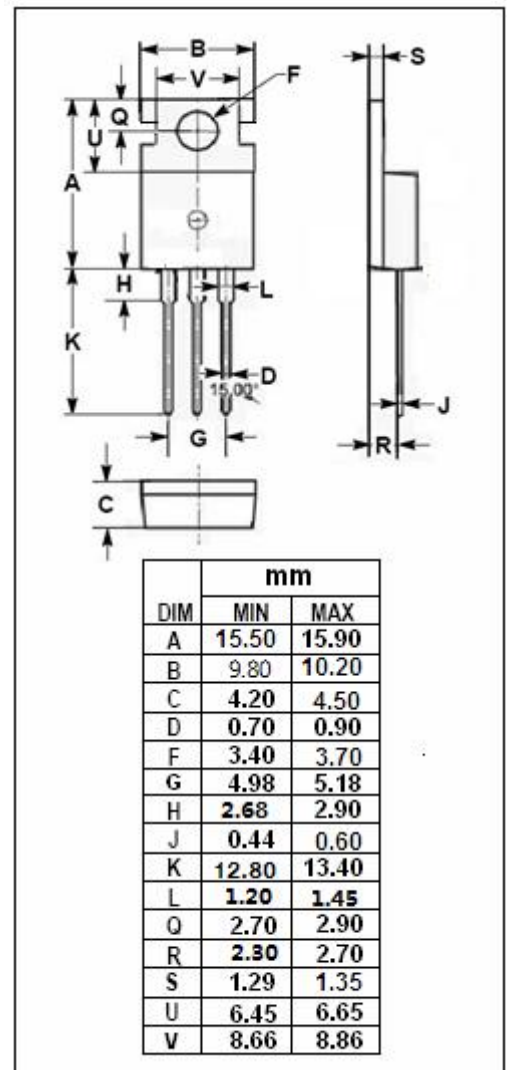
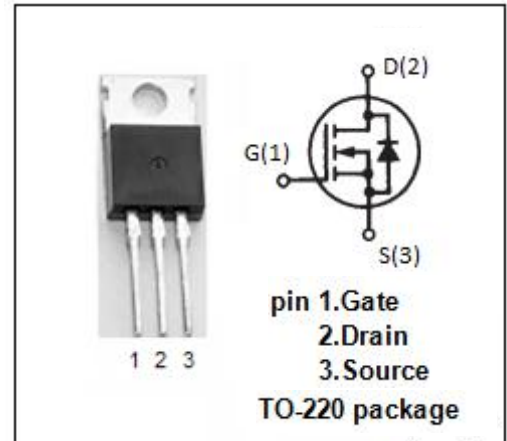
- Power supply
- Switching applications

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

SYMBOL	PARAMETER	VALUE	UNIT
V_{DS}	Drain-Source Voltage	250	V
V_{GS}	Gate-Source Voltage	± 30	V
I_D	Drain Current-Continuous;@ $T_c=25^\circ C$	50	A
P_D	Total Dissipation	260	W
T_j	Operating Junction Temperature	-55~150	$^\circ C$
T_{stg}	Storage Temperature	-55~150	$^\circ C$

• THERMAL CHARACTERISTICS

SYMBOL	PARAMETER	MAX	UNIT
$R_{th(ch-c)}$	Channel-to-case thermal resistance	0.48	$^\circ C/W$



isc N-Channel MOSFET Transistor**FDP2710****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	250			V
V _{GS(th)}	Gate Threshold Voltage	V _{DS} =V _{GS} ; I _D =250uA	3		5	V
R _{DS(on)}	Drain-Source On-Resistance	V _{GS} = 10V; I _D =25A			42.5	mΩ
I _{GSS}	Gate-Source Leakage Current	V _{GS} = ±30V; V _{DS} = 0V			±100	nA
I _{DSS}	Drain-Source Leakage Current	V _{DS} = 250V; V _{GS} = 0V V _{DS} = 250V; V _{GS} = 0V; T _J =150°C			10 500	μA
V _{SDF}	Diode forward voltage	I _{SD} = 50A, V _{GS} = 0 V			1.2	V

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