

INCHANGE SEMICONDUCTOR

isc N-Channel MOSFET Transistor

FCPF11N60NT

FEATURES

- With TO-220F packaging
- High speed switching
- Low gate input resistance
- · Standard level gate drive
- · Easy to use
- 100% avalanche tested
- Minimum Lot-to-Lot variations for robust device performance and reliable operation

APPLICATIONS

- Power supply
- Switching applications

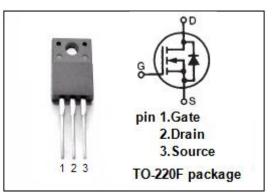
• ABSOLUTE MAXIMUM RATINGS(Ta=25°C)

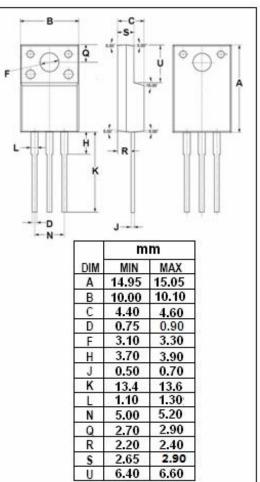
SYMBOL	PARAMETER	VALUE	UNIT
V _{DSS}	Drain-Source Voltage	600	V
V _{GSS}	Gate-Source Voltage	±30	V
ID	Drain Current-Continuous;@Tc=25°C Tc=100°C	10.8 6.8	A
I _{DM}	Drain Current-Single Pulsed	32.4	А
P _D	Total Dissipation	32.1	W
Tj	Operating Junction Temperature	-55~150	°C
T _{stg}	Storage Temperature	-55~150	°C

THERMAL CHARACTERISTICS

SYMBOL	PARAMETER	MAX	UNIT
Rth(ch-c)	Channel-to-case thermal resistance	3.9	°C/W

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isc website: www.iscsemi.cn



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ELECTRICAL CHARACTERISTICS

$T_{\text{C}}\text{=}25^{\circ}\!\!\!\!\!\mathrm{C}$ unless otherwise specified

SYMBOL	PARAMETER	CONDITIONS	MIN	ТҮР	MAX	UNIT
BV _{DSS}	Drain-Source Breakdown Voltage	V _{GS} =0V; I _D = 1mA	600			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 = 5.4A			299	mΩ
I _{GSS}	Gate-Source Leakage Current	V _{GS} =±30V;V _{DS} = 0V			±100	nA
I _{DSS}	Drain-Source Leakage Current	V _{DS} = 480V; V _{GS} = 0V V _{DS} = 480V; V _{GS} = 0V; T _J =125°C			10 100	μA
VSDF	Diode forward voltage	I _{SD} = 54A, V _{GS} = 0 V			1.2	v

NOTICE:

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