

isc N-Channel MOSFET Transistor

FCPF13N60NT

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



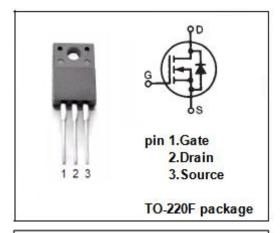


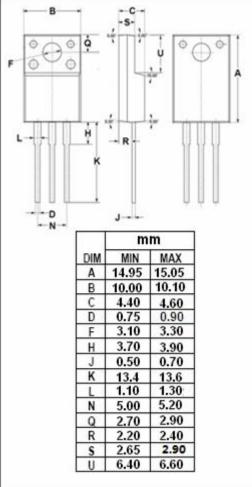
• ABSOLUTE MAXIMUM RATINGS(Ta=25°C)

SYMBOL	PARAMETER	VALUE	UNIT
V _{DSS}	Drain-Source Voltage	600	V
V _{GSS}	Gate-Source Voltage	±30	V
I _D	Drain Current-Continuous;@Tc=25℃ Tc=100℃	13 8.2	А
I _{DM}	Drain Current-Single Pulsed	39	А
P _D	Total Dissipation	33.8	W
Tj	Operating Junction Temperature	-55~150	$^{\circ}$
T _{stg}	Storage Temperature	-55~150	$^{\circ}$

THERMAL CHARACTERISTICS

SYMBOL	PARAMETER	MAX	UNIT
Rth(ch-c)	Channel-to-case thermal resistance	3.7	°C/W







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ELECTRICAL CHARACTERISTICS

Tc=25℃ 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	2.5		3.5	V
R _{DS(on)}	Drain-Source On-Resistance	V _{GS} = 10V; I _D = 6.5A			258	mΩ
I _{GSS}	Gate-Source Leakage Current	V_{GS} = $\pm 30V; V_{DS}$ = $0V$			±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	μА
V _{SDF}	Diode forward voltage	I _{SD} =6.5A, V _{GS} = 0 V			1.2	V

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