

isc N-Channel MOSFET Transistor

KP8N60F

• FEATURES

- Static drain-source on-resistance: R_Ds(on) ≤0.58Ω
- Enhancement mode
- · Fast Switching Speed
- · 100% avalanche tested
- Minimum Lot-to-Lot variations for robust device performance and reliable operation

DESCRITION

 Suitable for active power factor correction and switching mode Power supplies

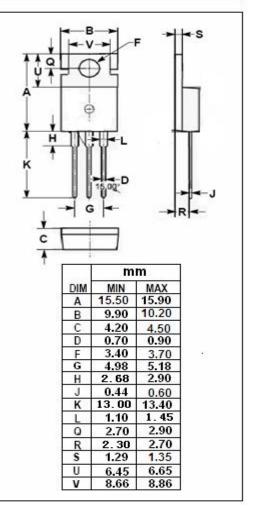
pin 1, Gate 2, Drain 3, Source TO-220C package

• ABSOLUTE MAXIMUM RATINGS(Ta=25°C)

SYMBOL	PARAMETER	VALUE	UNIT
V_{DSS}	Drain-Source Voltage	600	V
V _{GS}	Gate-Source Voltage	±30	V
I _D	Drain Current-Continuous	Α	
I _{DM}	Drain Current-Single Pulsed 18		А
P _D	Total Dissipation @Tc=25℃	37.9	W
Tj	Max. Operating Junction Temperature	150	${\mathbb C}$
T _{stg}	Storage Temperature	-55~150	$^{\circ}$

• THERMAL CHARACTERISTICS

SYMBOL	PARAMETER	MAX	UNIT
Rth(ch-c)	Channel-to-case thermal resistance	3.3	°C/W
Rth(ch-a)	th(ch-a) Channel-to-ambient thermal resistance		°C/W





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ELECTRICAL CHARACTERISTICS

T_C=25℃ unless otherwise specified

SYMBOL	PARAMETER	CONDITIONS	MIN	ТҮР	MAX	UNIT
BV _{DSS}	Drain-Source Breakdown Voltage	V _{GS} =0V; ID = 250μA	600			V
V _{GS(th)}	Gate Threshold Voltage	V _{DS} =V _{GS} ; I _D =250 μ A	2		4	V
R _{DS(on)}	Drain-Source On-Resistance	V _{GS} =10V; I _D =4A			0.58	Ω
I _{GSS}	Gate-Source Leakage Current	V _{GS} =± 30V			±100	nA
I _{DSS}	Drain-Source Leakage Current	V _{DS} =600V; V _{GS} = 0V			10	μ А
V _{SD}	Diode forward voltage	Is =8A, V _{GS} = 0 V			1.4	V

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