

isc N-Channel MOSFET Transistor

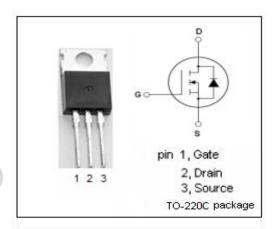
30N06

• FEATURES

- Static drain-source on-resistance: R_{DS}(on) ≤0.05Ω
- · Fast Switching Speed
- 100% avalanche tested
- Minimum Lot-to-Lot variations for robust device performance and reliable operation

DESCRITION

 Be suitable for synchronous rectification for server and general purpose applications

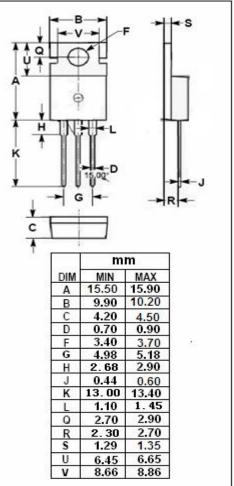


• ABSOLUTE MAXIMUM RATINGS(Ta=25°C)

SYMBOL	PARAMETER	VALUE	UNIT
V _{DSS}	Drain-Source Voltage	60	V
V _{GS}	Gate-Source Voltage	±30	V
I _D	Drain Current-Continuous	30	А
I _{DM}	Drain Current-Single Pulsed	100	А
P _D	Total Dissipation @Tc=25℃	105	W
Tj	Max. Operating Junction Temperature	150	$^{\circ}$
T _{stg}	Storage Temperature	-55~150	$^{\circ}$

• THERMAL CHARACTERISTICS

SYMBOL	PARAMETER	MAX	UNIT
Rth(ch-c)	Channel-to-case thermal resistance	1.19	°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; I _D =250 μ A	60			V
V _{GS(th)}	Gate Threshold Voltage	V _{DS} =V _{GS} ; ID =250 μ A	2		4	V
R _{DS(on)}	Drain-Source On-Resistance	V _{GS} =10V; I _D =15A			0.05	Ω
I _{GSS}	Gate-Source Leakage Current	V _{GS} = ±30V;V _{DS} =0V			±100	nA
I _{DSS}	Drain-Source Leakage Current	V _{DS} = 60V; V _{GS} = 0V			200	μ А
V _{SD}	Diode forward voltage	Is=30A; V _{GS} = 0V			1.5	V

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