

isc N-Channel MOSFET Transistor

STP60NE06-16

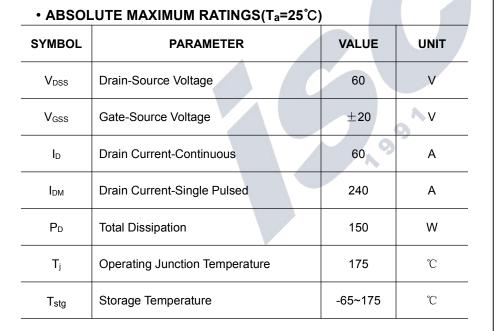
• FEATURES

- · With TO-220 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



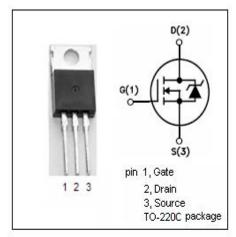
APPLICATIONS

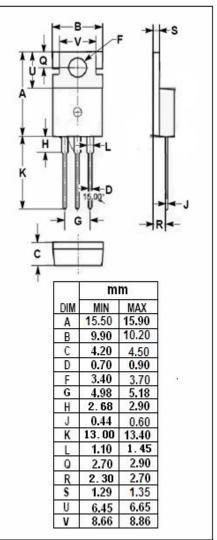
- Power supply
- · Switching applications



THERMAL CHARACTERISTICS

SYMBOL	PARAMETER		UNIT			
Rth(ch-c)	Channel-to-case thermal resistance	1.0	°C/W			
Rth(ch-a)	Channel-to-ambient thermal resistance	62.5	°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 = 0.25mA	60			V
V _{GS(th)}	Gate Threshold Voltage	V _{DS} =V _{GS} ; I _D =0.25mA	2.0		4.0	V
R _{DS(on)}	Drain-Source On-Resistance	V _{GS} = 10V; I _D =30A		13	16	mΩ
I _{GSS}	Gate-Source Leakage Current	V _{GS} =±20V;V _{DS} = 0V			±0.1	μА
I _{DSS}	Drain-Source Leakage Current	V _{DS} = 60V; V _{GS} = 0V;Tj=25℃			1	μА
V _{SDF}	Diode forward voltage	I _{SD} =60A, V _{GS} = 0 V			1.5	V



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