

INCHANGE SEMICONDUCTOR

isc N-Channel MOSFET Transistor

STF10NM60ND

• FEATURES

- Drain-source on-resistance: RDs(on) ≤ 0.6Ω (max)
- Enhancement mode
- Fast Switching Speed
- 100% avalanche tested
- Minimum Lot-to-Lot variations for robust device performance and reliable operation

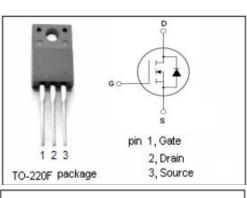
DESCRITION

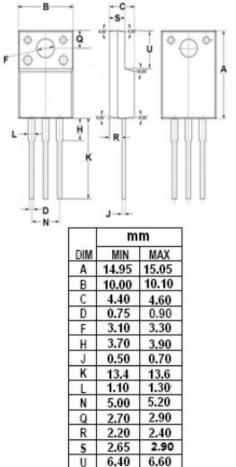
• Reliable device for use in a wide variety of applications

• ABSOLUTE MAXIMUM RATINGS(Ta=25°C)							
SYMBOL	PARAMETER	VALUE	UNIT				
V _{DSS}	Drain-Source Voltage	600	V				
V _{GS}	Gate-Source Voltage	±25	V				
ID	Drain Current-Continuous	8	A				
I _{DM}	Drain Current-Single Pulsed	32	A				
PD	Total Dissipation @Tc=25°C	25	W				
Tj	Max. Operating Junction Temperature	150	°C				
T _{stg}	Storage Temperature	-55~150	°C				

• THERMAL CHARACTERISTICS

SYMBOL	PARAMETER	MAX	UNIT
Rth(ch-c)	Channel-to-case thermal resistance	5	°C/W





isc website: www.iscsemi.cn



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ELECTRICAL CHARACTERISTICS

T_c=25℃ unless otherwise specified

SYMBOL	PARAMETER	CONDITIONS	MIN	ТҮР	МАХ	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	3		5	V
R _{DS(on)}	Drain-Source On-Resistance	V _{GS} =10V; I _D =4A			0.6	Ω
I _{GSS}	Gate-Source Leakage Current	V _{GS} =± 25V;V _{DS} = 0V			±100	nA
I _{DSS}	Drain-Source Leakage Current	V _{DS} =600V; V _{GS} = 0V			1	μA
V _{SD}	Diode forward voltage	I _{DR} =8A, V _{GS} = 0 V			1.5	V
Trr	Reverse recovery time	ISD=8A,di/dt=100A/us		118	200	nS

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