

isc N-Channel MOSFET Transistor

STF34NM60ND

• FEATURES

- · With low gate drive requirements
- · Easy to drive
- · 100% avalanche tested
- · Minimum Lot-to-Lot variations for robust device performance and reliable operation



APPLICATIONS

· Switching applications

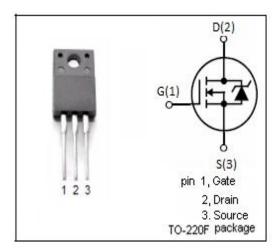


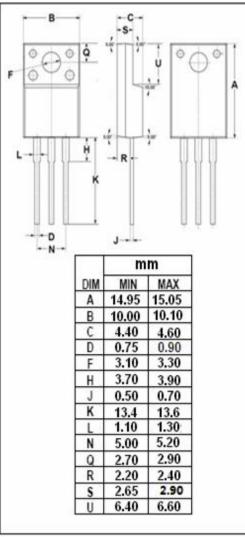
• ABSOLUTE MAXIMUM RATINGS(Ta=25°C)

SYMBOL	PARAMETER	VALUE	UNIT
V _{DSS}	Drain-Source Voltage	600	V
V _{GSS}	Gate-Source Voltage	±25	V
I _D	Drain Current-Continuous Tc=25°C Tc=100°C	29 18	А
I _{DM}	Drain Current-Single Pulsed	116	А
P _D	Total Dissipation	40	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	3.1	°C/W







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ELECTRICAL CHARACTERISTICS

T_C=25°C unless otherwise specified

SYMBOL	PARAMETER	CONDITIONS	MIN	TYP	MAX	UNIT
BV _{DSS}	Drain-Source Breakdown Voltage	V _{GS} =0V; I _D = 1mA	600			V
V _{GS(th)}	Gate Threshold Voltage	V _{DS} =±30V; I _D =0.25mA	3.0		5.0	V
R _{DS(on)}	Drain-Source On-Resistance	V _{GS} = 10V; I _D =14.5A			110	mΩ
I _{GSS}	Gate-Source Leakage Current	V _{GS} = ±25V;V _{DS} = 0V			±0.1	μ А
I _{DSS}	Drain-Source Leakage Current	V _{DS} = 600V; V _{GS} = 0V;@Tc=25°C Tc=125°C			1 100	μ А
V _{SDF}	Diode forward voltage	I _{SD} =29A, V _{GS} = 0 V			1.6	V

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