

INCHANGE SEMICONDUCTOR

isc N-Channel MOSFET Transistor

FMH35N60S1FD

• FEATURES

- With TO-3PN packaging
- · High speed switching
- Standard level gate drive
- · Easy to use
- 100% avalanche tested
- Minimum Lot-to-Lot variations for robust device performance and reliable operation

APPLICATIONS

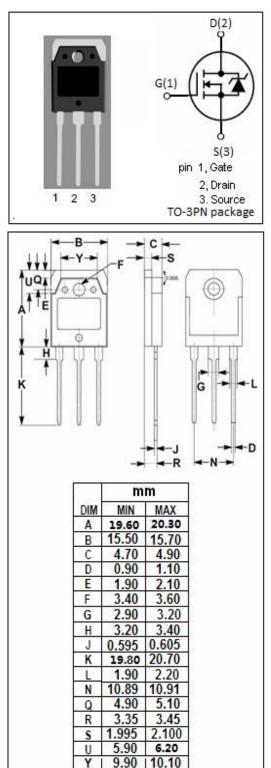
- · Power supply
- Switching applications

• ABSOLUTE MAXIMUM RATINGS(Ta=25°C)								
SYMBOL	PARAMETER	VALUE	UNIT					
V _{DSS}	Drain-Source Voltage	600	V					
V _{GSS}	Gate-Source Voltage	±30	∧v					
lo	Drain Current-Continuous@Tc=25℃ Tc=100℃	33 22	A					
I _{DM}	Drain Current-Single Pulsed	105	А					
P _D	Total Dissipation	270	W					
Tj	Operating Junction Temperature	-55~150	°C					
T _{stg}	Storage Temperature	-55~150	°C					

• THERMAL CHARACTERISTICS

SYMBOL	PARAMETER	МАХ	UNIT
Rth(ch-c)	Channel-to-case thermal resistance	0.46	°C/W

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ELECTRICAL CHARACTERISTICS

 $T_c=25^{\circ}C$ unless otherwise specified

SYMBOL	PARAMETER	CONDITIONS	MIN	ТҮР	МАХ	UNIT
BV _{DSS}	Drain-Source Breakdown Voltage	V _{GS} =0V; I _D =0.25mA	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 =17.5A		89	105	mΩ
I _{GSS}	Gate-Source Leakage Current	V _{GS} = ±30V;V _{DS} =0V			±0.1	μA
I _{DSS}	Drain-Source Leakage Current	V _{DS} = 600V; V _{GS} = 0;			25	μA
VSDF	Diode forward voltage	I _{SD} =35A, V _{GS} = 0 V			1.35	V

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