

INCHANGE SEMICONDUCTOR

isc N-Channel MOSFET Transistor

IXTH34N65X2

• FEATURES

- With TO-247 packaging
- · With low gate drive requirements
- · Low switching loss
- · Low on-state resistance
- Easy to drive
- 100% avalanche tested
- Minimum Lot-to-Lot variations for robust device performance and reliable operation
- APPLICATIONS
- Switching applications

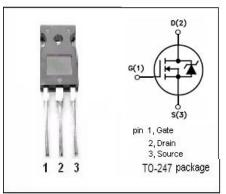
SYMBOL	PARAMETER VALU					
V _{DSS}	Drain-Source Voltage	650	V			
V _{GSS}	Gate-Source Voltage	±30	∧v			
lD	Drain Current-Continuous@Tc=25°C	34	A			
I _{DM}	Drain Current-Single Pulsed@Tc=25°C	68	A			
P _D	Total Dissipation	540	W			
Tj	Operating Junction Temperature	-55~150	°C			
T _{stg}	Storage Temperature	-55~150	°C			

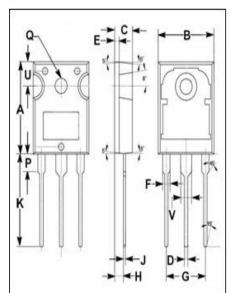
• ABSOLUTE MAXIMUM RATINGS(Ta=25°C)

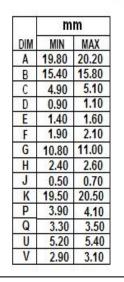
THERMAL CHARACTERISTICS

SYMBOL	PARAMETER	МАХ	UNIT
Rth(ch-c)	Channel-to-case thermal resistance	0.31	°C/W

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ELECTRICAL CHARACTERISTICS

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

SYMBOL	PARAMETER	CONDITIONS	MIN	ТҮР	MAX	UNIT
BV _{DSS}	Drain-Source Breakdown Voltage	V _{GS} =0V; I _D = 1mA	650			V
V _{GS} (th)	Gate Threshold Voltage	V _{DS} =V _{GS} ; I _D =0.25mA	3.0		5.0	V
R _{DS(on)}	Drain-Source On-Resistance	V _{GS} = 10V; I _D =17A			96	mΩ
I _{GSS}	Gate-Source Leakage Current	V _{GS} = ±30V;V _{DS} = 0V			±0.1	μA
I _{DSS}	Drain-Source Leakage Current	V _{DS} = 650V; V _{GS} = 0V;@Tc=25℃ V _{DS} = 650V; V _{GS} = 0V;Tc=125℃			10 150	μA
VSDF	Diode forward voltage	I _{SD} =34A, V _{GS} = 0V			1.4	V



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