

INCHANGE SEMICONDUCTOR

isc N-Channel MOSFET Transistor

SiHFP350

• FEATURES

- With TO-247 packaging
- · With low gate drive requirements
- · Easy to drive
- 100% avalanche tested
- Minimum Lot-to-Lot variations for robust device performance and reliable operation

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APPLICATIONS

Switching applications

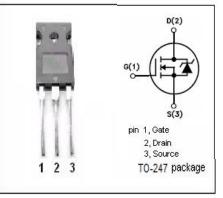
• ABSOLUTE MAXIMUM RATINGS(Ta=25 C)								
SYMBOL	PARAMETER	VALUE	UNIT					
V _{DSS}	Drain-Source Voltage	400	V					
V _{GSS}	Gate-Source Voltage	±20	∧v					
ID	Drain Current-Continuous @Tc=25℃ Tc=100℃	16 10	A					
I _{DM}	Drain Current-Single Pulsed	64	А					
P _D	Total Dissipation	190	W					
Tj	Operating Junction Temperature	-55~150	°C					
T _{stg}	Storage Temperature	-55~150	°C					

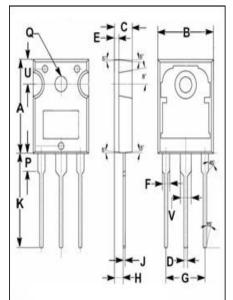
• ABSOLUTE MAXIMUM RATINGS(Ta=25°C)

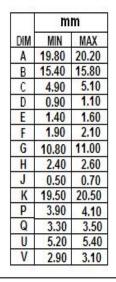
• THERMAL CHARACTERISTICS

SYMBOL	PARAMETER	МАХ	UNIT
Rth(ch-c)	Channel-to-case thermal resistance	0.65	°C/W

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ELECTRICAL CHARACTERISTICS

 $T_{\text{C}}\text{=}25^\circ\!\!\mathbb{C}$ unless otherwise specified

SYMBOL	PARAMETER	CONDITIONS	MIN	ТҮР	MAX	UNIT
BV _{DSS}	Drain-Source Breakdown Voltage	V _{GS} =0V; I _D = 0.25mA	400			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 =9.6A			300	mΩ
I _{GSS}	Gate-Source Leakage Current	V _{GS} = ±20V;V _{DS} = 0V			±0.1	μA
I _{DSS}	Drain-Source Leakage Current	V _{DS} = 400V; V _{GS} = 0V;@Tc=25℃ V _{DS} = 320V; V _{GS} = 0V;Tc=125℃			25 250	μA
VSDF	Diode forward voltage	I _{SD} =16A, V _{GS} = 0 V			1.6	V



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