

INCHANGE SEMICONDUCTOR

isc N-Channel MOSFET Transistor

APT20M36BFLL

• 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

APPLICATIONS

Switching applications

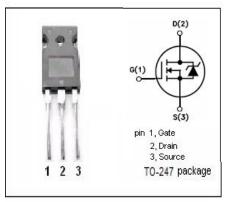
• ADSOLUTE IMAXIMUM RATINGS(Ta=25 C)						
SYMBOL	PARAMETER	VALUE	UNIT			
V _{DSS}	Drain-Source Voltage	200	v			
V _{GSS}	Gate-Source Voltage	±30	v			
ID	Drain Current-Continuous	65	А			
Idm	Drain Current-Single Pulsed	260	А			
PD	Total Dissipation	325	W			
Tj	Operating Junction Temperature	-55~150	°C			
T _{stg}	Storage Temperature	-55~150	°C			

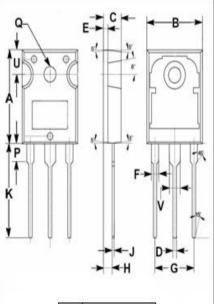
• ABSOLUTE MAXIMUM RATINGS(T_a=25°C)

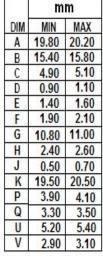
THERMAL CHARACTERISTICS

SYMBOL	PARAMETER		UNIT	
Rth(ch-c)	Channel-to-case thermal resistance	0.38	°C/W	

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isc website: www.iscsemi.cn

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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	200			v
$V_{GS(th)}$	Gate Threshold Voltage	V _{DS} =V _{GS} ; I _D =1.0mA	3.0		5.0	v
R _{DS(on)}	Drain-Source On-Resistance	V _{GS} = 10V; I _D =32A			36	mΩ
I _{GSS}	Gate-Source Leakage Current	V _{GS} = ±20V;V _{DS} = 0V			±0.1	μA
I _{DSS}	Drain-Source Leakage Current	V _{DS} = 200V; V _{GS} = 0V;@Tc=25°C V _{DS} = 200V; V _{GS} = 0V;Tc=125°C			250 1000	μA
V _{SDF}	Diode forward voltage	I _{SD} =65A, V _{GS} = 0V			1.3	V

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