

# isc N-Channel MOSFET Transistor

## IPB019N06L3

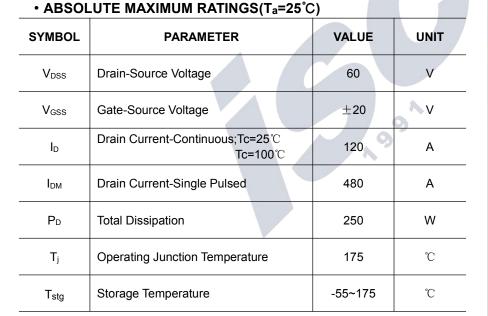
### • FEATURES

- · With TO-263( D2PAK ) packaging
- · High speed switching
- · Low gate input resistance
- · Standard level gate drive
- · Easy to use
- 100% avalanche tested
- Minimum Lot-to-Lot variations for robust device performance and reliable operation



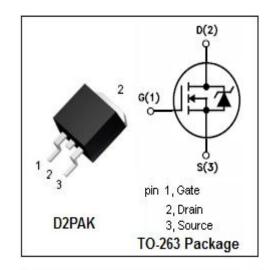
### APPLICATIONS

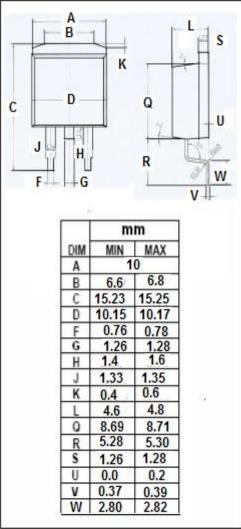
- Power supply
- · Switching applications



### • THERMAL CHARACTERISTICS

SYMBOL	PARAMETER		UNIT	
Rth(ch-c)	Channel-to-case thermal resistance	0.6	°C/W	
Rth(ch-a)	Channel-to-ambient thermal resistance	40	°C/W	





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#### **ELECTRICAL CHARACTERISTICS**

T<sub>C</sub>=25℃ unless otherwise specified

SYMBOL	PARAMETER	CONDITIONS	MIN	TYP	MAX	UNIT
BV <sub>DSS</sub>	Drain-Source Breakdown Voltage	V <sub>GS</sub> =0V; I <sub>D</sub> =1mA	60			V
V <sub>GS(th)</sub>	Gate Threshold Voltage	V <sub>DS</sub> =V <sub>GS</sub> ; I <sub>D</sub> =0.196mA	1.2		2.2	V
R <sub>DS(on)</sub>	Drain-Source On-Resistance	V <sub>GS</sub> = 10V; I <sub>D</sub> =100A		1.6	1.9	mΩ
I <sub>GSS</sub>	Gate-Source Leakage Current	V <sub>GS</sub> =±20V;V <sub>DS</sub> = 0V			±0.1	μ <b>А</b>
I <sub>DSS</sub>	Drain-Source Leakage Current	V <sub>DS</sub> =60V; V <sub>GS</sub> = 0V;Tc=25°C V <sub>DS</sub> =60V; V <sub>GS</sub> = 0V; Tc=125°C			3 300	μА
V <sub>SDF</sub>	Diode forward voltage	I <sub>SD</sub> =100A, V <sub>GS</sub> = 0 V		0.9	1.2	V

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