

# isc N-Channel MOSFET Transistor IPD034N06N3, IIPD034N06N3

### • FEATURES

- Static drain-source on-resistance: RDs(on)≤3.4mΩ
- Enhancement mode:
- 100% avalanche tested
- Minimum Lot-to-Lot variations for robust device performance and reliable operation

## DESCRITION

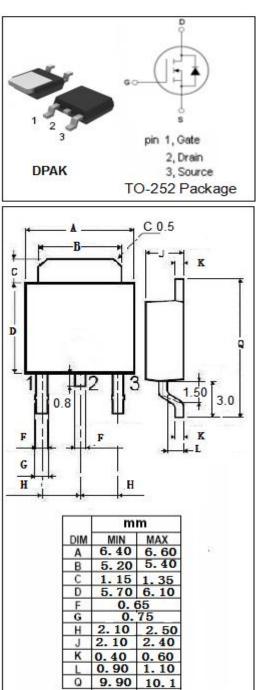
High Frequency switching

# • ABSOLUTE MAXIMUM RATINGS(Ta=25°C)

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SYMBOL	PARAMETER	VALUE	UNIT				
V <sub>DSS</sub>	Drain-Source Voltage	60	V				
V <sub>GS</sub>	Gate-Source Voltage	±20	V				
ID	Drain Current-Continuous	100	A				
I <sub>DM</sub>	Drain Current-Single Pulsed	400	А				
PD	Total Dissipation @T <sub>c</sub> =25°C	167	W				
Tj	Max. Operating Junction Temperature	175	°C				
T <sub>stg</sub>	Storage Temperature	-55~175	°C				

# THERMAL CHARACTERISTICS

SYMBOL	PARAMETER	МАХ	UNIT
Rth(j-c)	Channel-to-case thermal resistance	0.9	°C/W
Rth(j-a)	Rth(j-a) Channel-to-ambient thermal resistance		°C/W





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### **ELECTRICAL CHARACTERISTICS**

#### T<sub>c</sub>=25℃ unless otherwise specified

SYMBOL	PARAMETER	CONDITIONS	MIN	ТҮР	МАХ	UNIT
BV <sub>DSS</sub>	Drain-Source Breakdown Voltage	V <sub>GS</sub> =0V; I <sub>D</sub> =1mA	60			V
V <sub>GS</sub> (th)	Gate Threshold Voltage	VDS=VGS; I <sub>D</sub> =93 µ А	2		4	V
R <sub>DS(on)</sub>	Drain-Source On-Resistance	V <sub>GS</sub> =10V; I <sub>D</sub> =100A			3.4	mΩ
I <sub>GSS</sub>	Gate-Source Leakage Current	V <sub>GS</sub> = 20V; V <sub>DS</sub> = 0V			0.1	μA
I <sub>DSS</sub>	Drain-Source Leakage Current	V <sub>DS</sub> =60V; V <sub>GS</sub> = 0V			1	μA
V <sub>SD</sub>	Diode forward voltage	I <sub>F</sub> =100A, V <sub>GS</sub> = 0V			1.2	V

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