

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

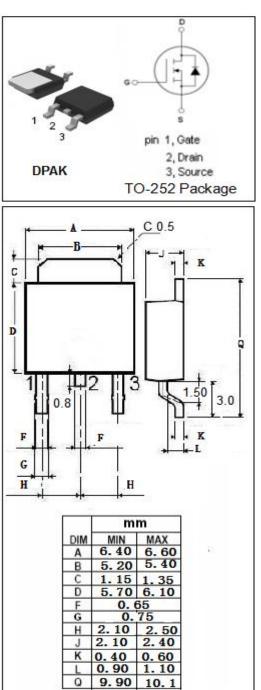
High Frequency switching

• ABSOLUTE MAXIMUM RATINGS(Ta=25°C)

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SYMBOL	PARAMETER	VALUE	UNIT				
V _{DSS}	Drain-Source Voltage	60	V				
V _{GS}	Gate-Source Voltage	±20	V				
ID	Drain Current-Continuous	100	A				
I _{DM}	Drain Current-Single Pulsed	400	А				
PD	Total Dissipation @T _c =25°C	167	W				
Tj	Max. Operating Junction Temperature	175	°C				
T _{stg}	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_c=25℃ unless otherwise specified

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

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