

isc N-Channel MOSFET Transistor

IPD33CN10N,IIPD33CN10N

• FEATURES

- Static drain-source on-resistance:
 R_{DS}(on)≤34mΩ
- Enhancement mode:
- 100% avalanche tested
- Minimum Lot-to-Lot variations for robust device performance and reliable operation

DESCRITION

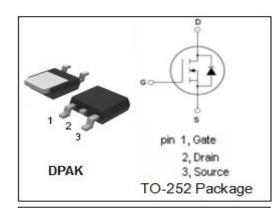
• Ideal for high-frequency switching and synchronous rectification

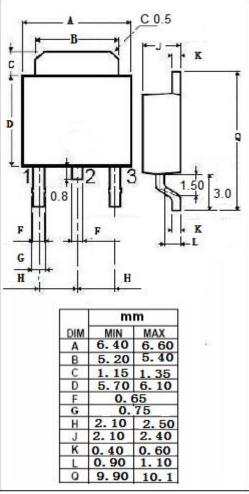
• ABSOLUTE MAXIMUM RATINGS(T_a=25°C)

SYMBOL	PARAMETER	VALUE	UNIT
V _{DSS}	Drain-Source Voltage	100	V
V _{GS}	Gate-Source Voltage	±20	V
I _D	Drain Current-Continuous	27	Α
I_{DM}	Drain Current-Single Pulsed	108	Α
P _D	Total Dissipation @Tc=25℃ 58		W
Tj	Max. Operating Junction Temperature	175	$^{\circ}$ C
T _{stg}	Storage Temperature	-55~175	$^{\circ}$

• THERMAL CHARACTERISTICS

SYMBOL	PARAMETER	MAX	UNIT
Rth(j-c)	Channel-to-case thermal resistance	2.6	°C/W
Rth(j-a)	Channel-to-ambient thermal resistance	75	°C/W







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ELECTRICAL CHARACTERISTICS

T_C=25℃ unless otherwise specified

SYMBOL	PARAMETER	CONDITIONS	MIN	ТҮР	MAX	UNIT
BV _{DSS}	Drain-Source Breakdown Voltage	V _{GS} =0V; I _D =1mA	100			V
V _{GS(th)}	Gate Threshold Voltage	VDS=VGS; I _D =29 μ A	2		4	V
R _{DS(on)}	Drain-Source On-Resistance	V _{GS} =10V; I _D =27A			33	mΩ
I _{GSS}	Gate-Source Leakage Current	V _{GS} = 20V;V _{DS} =0V			0.1	μ A
I _{DSS}	Drain-Source Leakage Current	V _{DS} =80V; V _{GS} = 0V			1	μА
V _{SD}	Diode forward voltage	I _F =27A, V _{GS} = 0V			1.2	V

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