

isc N-Channel MOSFET Transistor IPD110N12N3,IIPD110N12N3

• FEATURES

- Static drain-source on-resistance: R_{DS}(on)≤11m Ω
- Enhancement mode:
- · 100% avalanche tested
- · Minimum Lot-to-Lot variations for robust device performance and reliable operation

DESCRITION

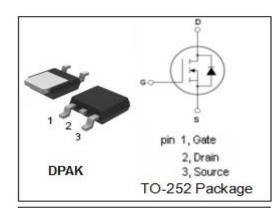
· Ideal for high-frequency switching and synchronous rectification

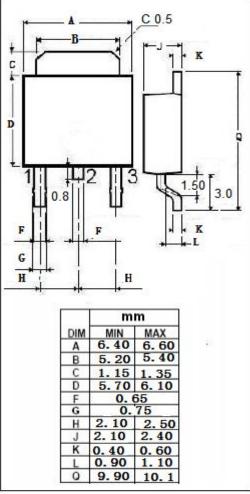
• ABSOLUTE MAXIMUM RATINGS(T_a=25°C)

SYMBOL	PARAMETER	VALUE	UNIT
V _{DSS}	Drain-Source Voltage	120	V
V _{GS}	Gate-Source Voltage	±20	V
I _D	Drain Current-Continuous	75	Α
I_{DM}	Drain Current-Single Pulsed	300	A
P _D	Total Dissipation @Tc=25℃	136	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	1.1	°C/W
Rth(j-a)	Channel-to-ambient thermal resistance	75	°C/W







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IPD110N12N3,IIPD110N12N3

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	120			V
V _{GS(th)}	Gate Threshold Voltage	VDS=VGS; I _D =83 μ A	2		4	V
R _{DS(on)}	Drain-Source On-Resistance	V _{GS} =10V; I _D =75A			11	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} =120V; V _{GS} = 0V			1	μА
V _{SD}	Diode forward voltage	I _F =75A, V _{GS} = 0V			1.2	V

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