

isc N-Channel MOSFET Transistor

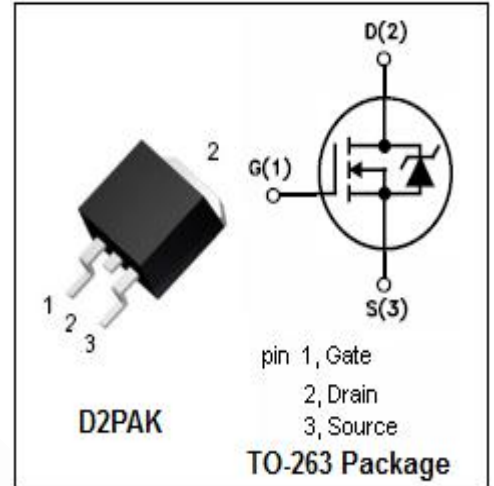
IPB073N15N5

• FEATURES

- With TO-263(D2PAK) packaging
- Very low reverse recovery charge
- High speed switching
- Very low on-resistance
- Easy to use
- 100% avalanche tested
- Minimum Lot-to-Lot variations for robust device performance and reliable operationz

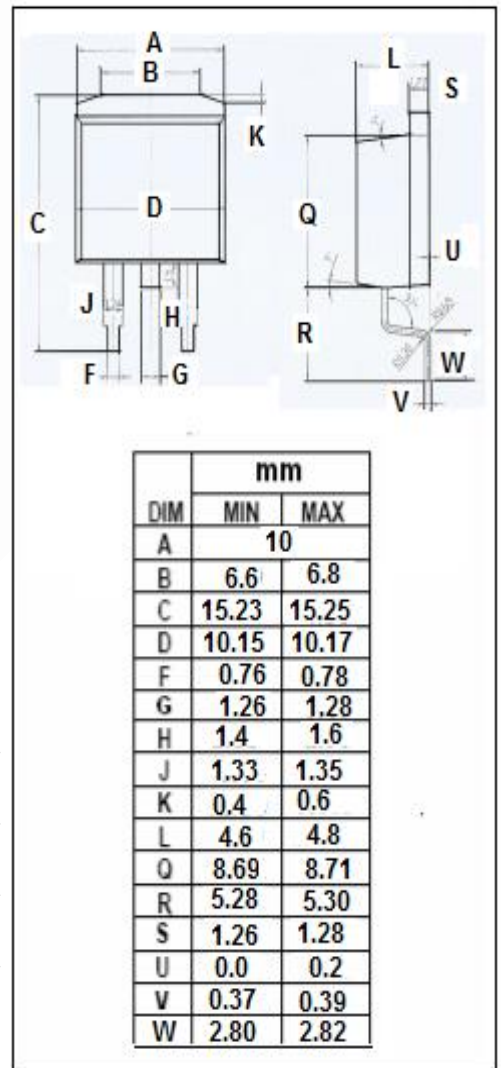
• APPLICATIONS

- Switching applications



• ABSOLUTE MAXIMUM RATINGS(T_a=25°C)

SYMBOL	PARAMETER	VALUE	UNIT
V _{DSS}	Drain-Source Voltage	150	V
V _{GSS}	Gate-Source Voltage	±20	V
I _D	Drain Current-Continuous@T _c =25°C T _c =100°C	114 81	A
I _{DM}	Drain Current-Single Pulsed	456	A
P _D	Total Dissipation	214	W
T _j	Operating Junction Temperature	-55~175	°C
T _{stg}	Storage Temperature	-55~175	°C



• THERMAL CHARACTERISTICS

SYMBOL	PARAMETER	MAX	UNIT
Rth(ch-c)	Channel-to-case thermal resistance	0.7	°C/W
Rth(ch-a)	Channel-to-ambient thermal resistance	62	°C/W

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ELECTRICAL CHARACTERISTICS

T_C=25°C unless otherwise specified

SYMBOL	PARAMETER	CONDITIONS	MIN	TYP	MAX	UNIT
BV _{DSS}	Drain-Source Breakdown Voltage	V _{GS} =0V; I _D = 0.25mA	150			V
V _{GS(th)}	Gate Threshold Voltage	V _{DS} =±20V; I _D =0.79mA	3.0		4.6	V
R _{DS(on)}	Drain-Source On-Resistance	V _{GS} = 10V; I _D =57A		5.6	7.3	mΩ
I _{GSS}	Gate-Source Leakage Current	V _{GS} = ±20V; V _{DS} = 0V			±0.1	μA
I _{DSS}	Drain-Source Leakage Current	V _{DS} = 120V; V _{GS} = 0V@T _j =25°C T _j =125°C			1 100	μA
V _{SDF}	Diode forward voltage	I _{SD} =57A, V _{GS} = 0 V			1.1	V