

isc N-Channel MOSFET Transistor

IPB073N15N5

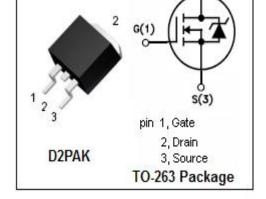
• FEATURES

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

APPLICATIONS

Switching applications





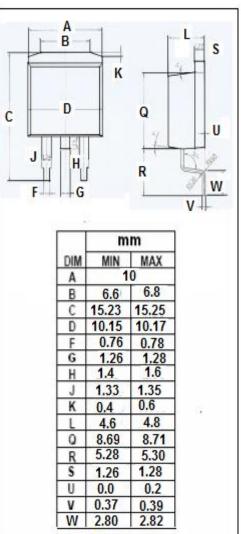
D(2)

• ABSOLUTE MAXIMUM RATINGS(T_a=25℃)

SYMBOL	PARAMETER	VALUE	UNIT	
V _{DSS}	Drain-Source Voltage	150	V	
V _{GSS}	Gate-Source Voltage	±20	V	
I _D			Α	
I _{DM}	Drain Current-Single Pulsed	456	Α	
P _D	Total Dissipation	214	W	
Tj	Operating Junction Temperature	-55~175	$^{\circ}\mathbb{C}$	
T _{stg}	Storage Temperature	-55~175	${}^{\mathbb{C}}$	

• THERMAL CHARACTERISTICS

SYMBOL	PARAMETER		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℃ unless otherwise specified

SYMBOL	PARAMETER	CONDITIONS	MIN	ТҮР	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	μА
I _{DSS}	Drain-Source Leakage Current	V _{DS} = 120V; V _{GS} = 0V@Tj=25°C Tj=125°C			1 100	μ A
V _{SDF}	Diode forward voltage	I _{SD} =57A, V _{GS} = 0 V			1.1	V

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