

isc N-Channel MOSFET Transistor

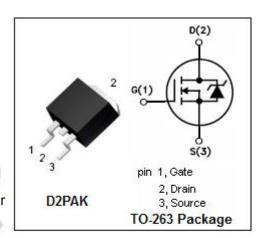
IXTA75N10P

DESCRIPTION

- Drain Current I_D= 75A@ T_C=25℃
- Drain Source Voltage
 - : V_{DSS}= 100V(Min)
- · Fast Switching Speed
- Minimum Lot-to-Lot variations for robust device performance and reliable operation

APPLICATIONS

• Designed for high current, high speed switching, switch mode power supplies (SMPS), consumer and industrial lighting, DC-AC inverters for welding equipment and uninterruptible power supply(UPS)

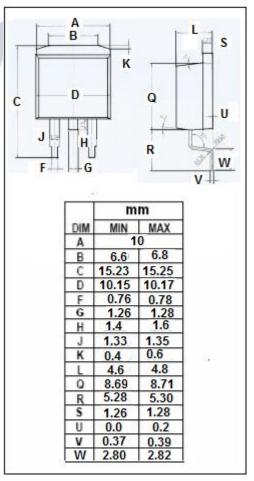


ABSOLUTE MAXIMUM RATINGS(Tc=25°C)

SYMBOL	ARAMETER	VALUE	UNIT	
V_{DSS}	Drain-Source Voltage (V _{GS} =0)	100	V	
V_{GS}	Gate-Source Voltage	±20	V	
I _D	Drain Current-continuous@ T _C =25℃	75	Α	
I _{D(puls)}	Pulse Drain Current	200	Α	
P _{tot}	Total Dissipation@T _C =25℃	300	W	
Tj	Max. Operating Junction Temperature	150	$^{\circ}$	
T_{stg}	Storage Temperature Range	-55~150	$^{\circ}$	

• THERMAL CHARACTERISTICS

SYMBOL	PARAMETER	MAX	UNIT
R _{th j-c}	Thermal Resistance, Junction to Case	0.42	°C/W



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• ELECTRICAL CHARACTERISTICS (Tc=25°C)

SYMBOL	PARAMETER	CONDITIONS	MIN	TYPE	MAX	UNIT
V _{(BR)DSS}	Drain-Source Breakdown Voltage	V _{GS} = 0; I _D = 250μA	100			V
V _{GS} (th)	Gate Threshold Voltage	V _{DS} = V _{GS} ; I _D =250μA	2.5		5	V
V _{SD}	Diode Forward On-Voltage	I _S =75A ;V _{GS} = 0			1.5	V
R _{DS(on)}	Drain-Source On-Resistance	V _{GS} = 10V; I _D =37.5A			25	m Ω
I _{GSS}	Gate-Body Leakage Current	V _{GS} = ±20V;V _{DS} = 0			±100	nA
I _{DSS}	Zero Gate Voltage Drain Current	V _{DS} = 100V; V _{GS} = 0			25	μΑ



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