

isc N-Channel MOSFET Transistor

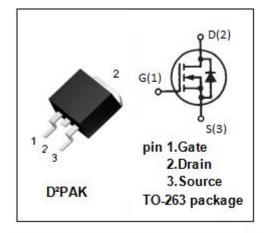
IXTA80N12T2

• FEATURES

- Drain-Source On-Resistance: R_{DS(on)}<17m Ω
- · With TO-220 packaging
- · High speed switching
- · 100% avalanche tested
- Minimum Lot-to-Lot variations for robust device performance and reliable operation

APPLICATIONS

- PFC stages
- LCD & PDP TV
- Power supply
- · Switching applications

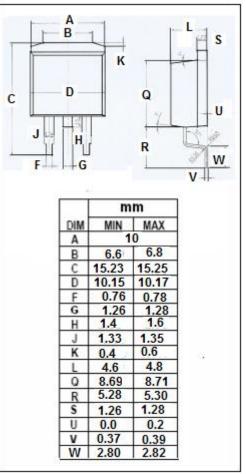


• ABSOLUTE MAXIMUM RATINGS(Ta=25°C)

SYMBOL	PARAMETER	VALUE	UNIT
V _{DSS}	Drain-Source Voltage	120	V
V_{GSS}	Gate-Source Voltage	±20	V
I _D	Drain Current-Continuous@Tc=25℃ Tc=100℃	10.4 6.6	А
I _{DM}	Drain Current-Single Pulsed	80	А
P _D	Total Dissipation	325	W
Tj	Operating Junction Temperature	-55~175	$^{\circ}$
T _{stg}	Storage Temperature	-55~175	${\mathbb C}$

THERMAL CHARACTERISTICS

SYMBOL	PARAMETER	MAX	UNIT
Rth(ch-c)	Channel-to-case thermal resistance	0.46	°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	120			V
V _{GS(th)}	Gate Threshold Voltage	V _{DS} =V _{GS} ; I _D =0.1mA	2.5		4.5	V
R _{DS(on)}	Drain-Source On-Resistance	V _{GS} = 10V; I _D =40A			17	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℃ V _{DS} = 120V; V _{GS} = 0V;Tj=175℃			5 175	μА
V _{SDF}	Diode forward voltage	I _{SD} =40A, V _{GS} = 0 V			1.5	V

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