

isc P-Channel MOSFET Transistor

IXTP48P05T

• FEATURES

- Static drain-source on-resistance: R_{DS}(on) ≤30mΩ
- Enhancement mode
- · Fast Switching Speed
- · 100% avalanche tested
- Minimum Lot-to-Lot variations for robust device performance and reliable operation

DESCRITION

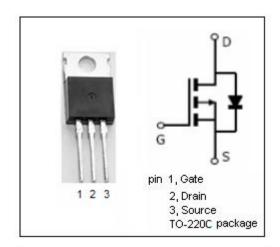
- High-Side Switching
- Push Pull Amplifiers
- DC Choppers z Automatic Test Equipment
- Current Regulators z Battery Charger Applications

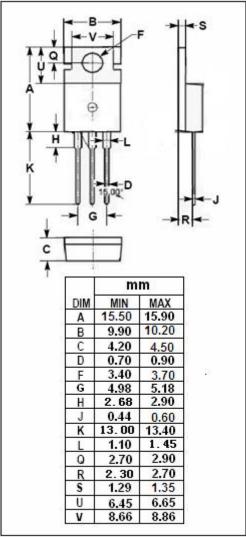
• ABSOLUTE MAXIMUM RATINGS(Ta=25°C)

SYMBOL	PARAMETER	VALUE	UNIT
V _{DSS}	Drain-Source Voltage	50	V
V _{GS}	Gate-Source Voltage	±15	V
I _D	Drain Current-Continuous	48	А
I _{DM}	Drain Current-Single Pulsed	150	А
P _D	Total Dissipation @T _C =25℃	150	W
Tj	Max. Operating Junction Temperature	150	${\mathbb C}$
T _{stg}	Storage Temperature	-55~150	$^{\circ}$ C

• THERMAL CHARACTERISTICS

SYMBOL	PARAMETER	MAX	UNIT
Rth(ch-c)	Channel-to-case thermal resistance	0.83	°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; ID =0.25mA	50			V
V _{GS(th)}	Gate Threshold Voltage	V _{DS} =V _{GS} ; ID =0.25mA	2.0		4.5	V
R _{DS(on)}	Drain-Source On-Resistance	V _{GS} =10V; I _D =24A			30	mΩ
I _{GSS}	Gate-Source Leakage Current	V _{GS} =±15V;V _{DS} =0V			±50	nA
I _{DSS}	Drain-Source Leakage Current	V _{DS} =50V; V _{GS} = 0V			10	μ А
V _{SD}	Diode forward voltage	IF=24A, V _{GS} = 0 V			1.5	V

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