

isc P-Channel MOSFET Transistor

IXTP48P05T

FEATURES

- Static drain-source on-resistance: $\mathsf{RDs}(\mathsf{on}){\leqslant}30\mathsf{m}\Omega$
- 100% avalanche tested
- Minimum Lot-to-Lot variations for robust device performance and reliable operation

APPLICATION

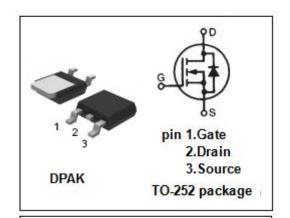
- · Hight side switching
- Current regulators
- Automatic test equipment

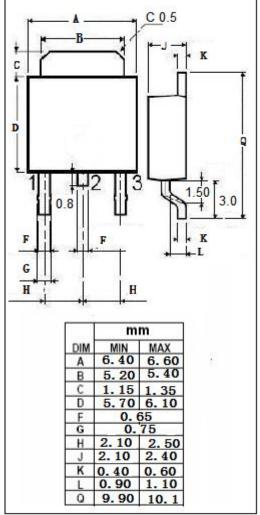
• ABSOLUTE MAXIMUM RATINGS(Ta=25°C)

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

• THERMAL CHARACTERISTICS

SYMBOL	PARAMETER	MAX	UNIT
$R_{\text{th(j-c)}}$	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; I _D = -250 μ A	-50			V
V _{GS} (th)	Gate Threshold Voltage	V _{DS} =V _{GS} ; I _D = -250 μ A	-2.5		-4.5	V
R _{DS(on)}	Drain-Source On-Resistance	V _{GS} = -10V; I _D = -24A			30	mΩ
Igss	Gate-Source Leakage Current	V _{GS} = ±15V; V _{DS} =0			±50	nA
loss	Drain-Source Leakage Current	V _{DS} = V _{DSS} ; V _{GS} = 0V			-10	- μА
		V _{DS} = V _{DSS} ; V _{GS} = 0V; T _J =125°C			-250	
V _{SD}	Diode forward voltage	I _F = -28A; V _{GS} = 0V			-1.5	V



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