

isc P-Channel MOSFET Transistor

IXTA48P05T

FEATURES

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

APPLICATION

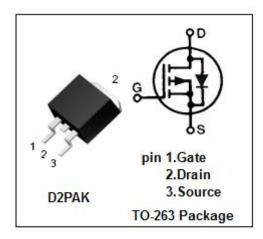
- Hight side switching
- · Current regulators
- Automatic test equipment

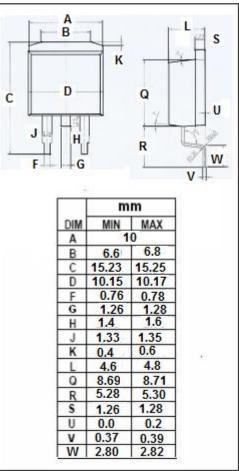


SYMBOL	PARAMETER	VALUE	UNIT	
V _{DSS}	Drain-Source Voltage	-50	V	
V _{GS}	Gate-Source Voltage	±15	V	
I_D	Drain Current-Continuous	-48	Α	
I _{DM}	Drain Current-Single Pulsed	-150	Α	
P _D	Total Dissipation @Tc=25℃	150	W	
Tj	Operating Junction Temperature	-55~150	$^{\circ}$	
T _{stg}	Storage Temperature	-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	- μΑ
		V _{DS} = V _{DSS} ; V _{GS} = 0V; T _J =125℃			-250	
V _{SD}	Diode forward voltage	I _F = -28A; V _{GS} = 0V			-1.5	V



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