

Isc P-Channel MOSFET Transistor

IXTH52P10P

• FEATURES

- With To-252(DPAK) package
- · Low input capacitance and gate charge
- · Low gate input resistance
- · 100% avalanche tested
- Minimum Lot-to-Lot variations for robust device performance and reliable operation



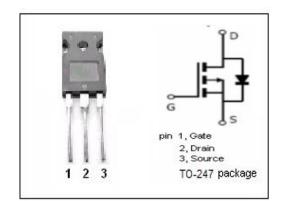
- · Switching applications
- Motor contorl
- DC-DC conventers

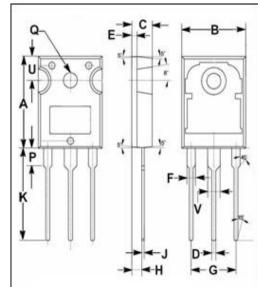
• ABSOLUTE MAXIMUM RATINGS(Ta=25°C)

SYMBOL	PARAMETER	VALUE	UNIT	
V _{DSS}	Drain-Source Voltage	-100	V	
V _{GSS}	Gate-Source Voltage	±30	V	
I _D	Drain Current-Continuous Tc=25℃ Tc=70℃	-52	А	
I _{DM}	Drain Current-Single Pulsed	-130	А	
P_D	Total Dissipation @T _C =25℃	300	W	
Tj	Max. Operating Junction Temperature	150	${\mathbb C}$	
T _{stg}	Storage Temperature	-55~150	${\mathbb C}$	

• THERMAL CHARACTERISTICS

SYMBOL	PARAMETER		UNIT	
Rth(ch-c)	Channel-to-case thermal resistance	0.42	°C/W	
Rth(ch-a)	Channel-to-ambient thermal resistance	50	°C/W	





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DIM	MIN	MAX
Α	19.80	20.20
В	15.40	15.80
C	4.90	5.10
D	0.90	1.10
E	1.40	1.60
F	1.90	2.10
G	10.80	11.00
Н	2.40	2.60
J	0.50	0.70
K	19.50	20.50
P	3.90	4.10
Q	3.30	3.50
U	5.20	5.40
V	2.90	3.10

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ELECTRICAL CHARACTERISTICS

Tc=25℃ unless otherwise specified

SYMBOL	PARAMETER	CONDITIONS	MIN	ТҮР	MAX	UNIT
BV _{DSS}	Drain-Source Breakdown Voltage	V _{GS} =0V; I _D = -0.25mA	-100			V
V _{GS} (th)	Gate Threshold Voltage	V _{DS} = V _{GS} ; I _D =-0.25mA	-2.5		-4.5	V
R _{DS(on)}	Drain-Source On-Resistance	V _{GS} = -10V; I _D =-26A		6.7	8.1	mΩ
I _{GSS}	Gate-Source Leakage Current	V _{GS} = ±20V;V _{DS} = 0V			±0.1	μА
I _{DSS}	Drain-Source Leakage Current	V _{DS} =-100V; V _{GS} = 0V;Tc=25℃ Tc=125℃			-10 -150	μА
V _{SDF}	Diode forward voltage	I _{SD} =-26A, V _{GS} = 0 V			-3.5	V

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