

Isc N-Channel MOSFET Transistor

TK4P60DA

• 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



APPLICATIONS

· Switching applications

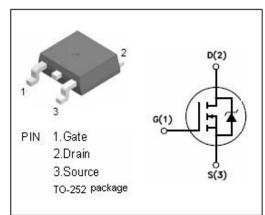


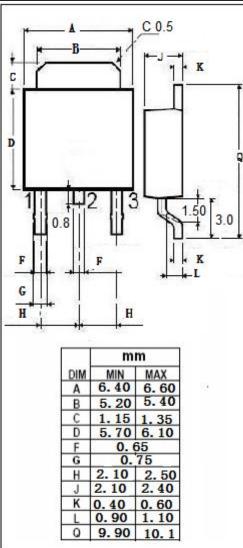
• ABSOLUTE MAXIMUM RATINGS(Ta=25℃)

SYMBOL	PARAMETER	VALUE	UNIT	
V _{DSS}	Drain-Source Voltage	600	V	
V _{GSS}	Gate-Source Voltage	±30	V	
I _D	Drain Current-Continuous 3.5		А	
I _{DM}	Drain Current-Single Pulsed 14		А	
P _D	Total Dissipation @T _C =25℃ 80		W	
T _{ch}	Max. Operating Junction Temperature	g Junction Temperature 150		
T _{stg}	Storage Temperature	-55~150	$^{\circ}$ C	

THERMAL CHARACTERISTICS

SYMBOL	PARAMETER		UNIT	
Rth(ch-c)	Channel-to-case thermal resistance	1.56	°C/W	
Rth(ch-a)	Channel-to-ambient thermal resistance	62.5	°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 = 10mA	600			V
V _{GS(th)}	Gate Threshold Voltage	V _{DS} = 10V; I _D =1mA	2.4		4.4	V
R _{DS(on)}	Drain-Source On-Resistance	V _{GS} = 10V; I _D =1.8A		1.7	2.2	Ω
I _{GSS}	Gate-Source Leakage Current	V _{GS} = ±30V;V _{DS} = 0V			±0.1	μА
I _{DSS}	Drain-Source Leakage Current	V _{DS} = 600V; V _{GS} = 0V			10	μА
V _{SDF}	Diode forward voltage	I _{SD} =3.5A, V _{GS} = 0 V			1.7	V

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