

Isc N-Channel MOSFET Transistor

TK10P60W

• 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

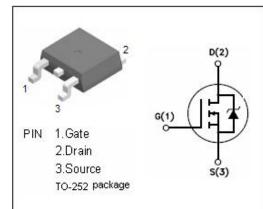


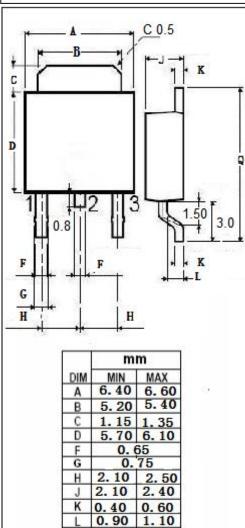
• ABSOLUTE MAXIMUM RATINGS(Ta=25°C)

SYMBOL	PARAMETER	VALUE	UNIT	
V _{DSS}	Drain-Source Voltage	600	V	
V _{GSS}	Gate-Source Voltage	±30	V	
I _D	Drain Current-Continuous	9.7	А	
I _{DM}	Drain Current-Single Pulsed	38.8	А	
P _D	Total Dissipation @Tc=25℃	80	W	
T _{ch}	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	1.57	°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 =0.5mA	2.7		3.7	V
R _{DS(on)}	Drain-Source On-Resistance	V _{GS} = 10V; I _D =4.9A		0.33	0.43	Ω
I _{GSS}	Gate-Source Leakage Current	V _{GS} = ±30V;V _{DS} = 0V			±1	μ A
I _{DSS}	Drain-Source Leakage Current	V _{DS} = 600V; V _{GS} = 0V			10	μА
V _{SDF}	Diode forward voltage	I _{SD} =9.7A, V _{GS} = 0 V			1.7	V

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2