

Isc N-Channel MOSFET Transistor

TK7P60W5

RDS(C • Easy to • Enhand Vth = 3 • 100% a • Minimu	PRES ain-source on-resistance: DN = 0.54 Ω (typ.) to control Gate switching cement mode: to 4.5V (VDS = 10 V, ID=0.35mA) avalanche tested im Lot-to-Lot variations for robust de mance and reliable operation	DPAK		
Motor [ng Voltage Regulators	C)		
SYMBOL	PARAMETER	VALUE	UNIT	D
V _{DSS}	Drain-Source Voltage	600	V	
V_{GS}	Gate-Source Voltage	±30	V	
ID	Drain Current-Continuous	7.0	A	
I _{DM}	Drain Current-Single Pulsed	28	A	
P _D	Total Dissipation @T _C =25℃	30	W	
Tj	Max. Operating Junction Temperature	150	°C	DIM MIN MAX
T _{stg}	Storage Temperature	-55~150	°C	A 6.40 6.60 B 5.20 5.40 C 1.15 1.35
• THERM				D 5.70 6.10 F 0.65 G 0.75
SYMBOL	PARAMETER	MAX	UNIT	H 2.10 2.50 J 2.10 2.40 K 0.40 0.60
Rth(ch-c)	Channel-to-case thermal resistance	4.17	°C/W	K 0.40 0.60 L 0.90 1.10 Q 9.90 10.1



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ELECTRICAL CHARACTERISTICS

$T_{\texttt{C}}\text{=}25^{\circ}\!\!\!\mathbb{C}$ unless otherwise specified

SYMBOL	PARAMETER	CONDITIONS	MIN	ТҮР	МАХ	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 =0.35mA	3		4.5	V
R _{DS(on)}	Drain-Source On-Resistance	V _{GS} = 10V; I _D =3.5A		540	650	mΩ
lgss	Gate-Source Leakage Current	V _{GS} = ±30V;V _{DS} = 0V			±1	μA
I _{DSS}	Drain-Source Leakage Current	V _{DS} = 600V; V _{GS} = 0V			100	μA
VSDF	Diode forward voltage	I _{DR} =7.0A, V _{GS} = 0 V			1.7	V

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