

isc N-Channel MOSFET Transistor

TK6P65W

RDS(• Enhand Vth = • 100% a • Minimu perform • DESCF • Switchi	ain-source on-resistance: on) ≤1.05Ω. cement mode: =2.5 to 3.5V (Vos = 10 V, Io=0.18mA avalanche tested im Lot-to-Lot variations for robust de nance and reliable operation	evice	
SYMBOL	PARAMETER	VALUE	UNIT
V _{DSS}	Drain-Source Voltage	650	V
V _{GS}	Gate-Source Voltage	±30	V
ID	Drain Current-Continuous	5.8	А
I _{DM}	Drain Current-Single Pulsed	23.2	А
PD	Total Dissipation @T _C =25℃	60	W
Tj	Max. Operating Junction Temperature	150	°C
T _{stg}	Storage Temperature	-55~150	°C
• THERM	MAL CHARACTERISTICS	I	I
SYMBOL	PARAMETER	MAX	UNIT
Rth(ch-c)	Channel-to-case thermal resistance	2.09	°C/W



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ELECTRICAL CHARACTERISTICS

$T_{\rm C}\text{=}25^\circ\!\!\mathrm{C}$ unless otherwise specified

SYMBOL	PARAMETER	CONDITIONS	MIN	ТҮР	МАХ	UNIT
BV _{DSS}	Drain-Source Breakdown Voltage	V _{GS} =0V; I _D =10mA	650			V
$V_{GS(th)}$	Gate Threshold Voltage	V _{DS} =10V; I _D =0.18mA	2.5		3.5	V
R _{DS(on)}	Drain-Source On-Resistance	V _{GS} =10V; I _D =2.9A			1.05	Ω
lgss	Gate-Source Leakage Current	V _{GS} = ±30V;V _{DS} = 0V			±1	μA
I _{DSS}	Drain-Source Leakage Current	V _{DS} =650V; V _{GS} = 0V			10	μA
V _{SDF}	Diode forward voltage	I _{DR} =5.8A, V _{GS} = 0 V			1.7	V



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