

iscN-Channel MOSFET Transistor

TK6P53D

RDS(• Enhand Vth = • 100% a • Minimu	PRES ain-source on-resistance: ON) = 1.3Ω (MAX) cement mode: = 2.4 to 4.4V (VDs = 10 V, ID=1.0mA avalanche tested im Lot-to-Lot variations for robust de nance and reliable operation			DPAK TO-252 part
• DESCF • Switchi	RITION ng Voltage Regulators			
• ABSOI	LUTE MAXIMUM RATINGS(Ta=25°	()		
SYMBOL	PARAMETER	VALUE	UNIT	D
V _{DSS}	Drain-Source Voltage	525	V	
V _{GS}	Gate-Source Voltage	±30	v	
ID	Drain Current-Continuous	6	A	
IDM	Drain Current-Single Pulsed	24	A	
PD	Total Dissipation @T _c =25°C	100	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
		1	1	D 5.70 6.10 F 0.65 G 0.75
• THERM				H 2.10 2.50
• THERN	PARAMETER	MAX	UNIT	J 2.10 2.40 K 0.40 0.60



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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	525			V
V _{GS} (th)	Gate Threshold Voltage	V _{DS} = 10V; I _D =1.0mA	2.4		4.4	V
R _{DS(on)}	Drain-Source On-Resistance	V _{GS} =10V; I _D =3A			1.3	Ω
lgss	Gate-Source Leakage Current	V _{GS} = ±30V;V _{DS} =0V			±1	μA
I _{DSS}	Drain-Source Leakage Current	V _{DS} =525V; V _{GS} = 0V			10	μA
V _{SDF}	Diode forward voltage	I _{DR} =6A, V _{GS} = 0 V			1.7	V

NOTICE:

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