

iscN-Channel MOSFET Transistor

TK3P50D

• FEATURES

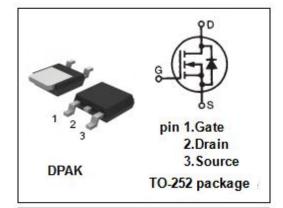
Low drain-source on-resistance:
R_{DS}(ON) = 3Ω (MAX) (V_{GS} = 10 V)

Enhancement mode:
Vth = 2.4 to 4.4V (VDS = 10 V, ID=1.0mA)

- 100% avalanche tested
- Minimum Lot-to-Lot variations for robust device performance and reliable operation



• Switching Voltage Regulators

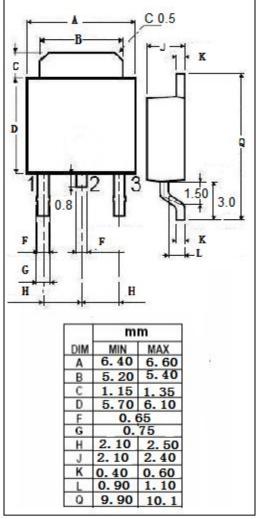


• AR201	UTE MAXIMUM RATINGS (Ta=25	C,

SYMBOL	PARAMETER	VALUE	UNIT	
V _{DSS}	Drain-Source Voltage	500	V	
V _{GS}	Gate-Source Voltage	±30	V	
I _D	Drain Current-Continuous	3	Α	
I _{DM}	Drain Current-Single Pulsed	6	А	
P _D	Total Dissipation @T _c =25℃	60	W	
Тј	Max. Operating Junction Temperature	150	${\mathbb C}$	
T _{stg}	Storage Temperature	-55~150	°C	

• THERMAL CHARACTERISTICS

SYMBOL	PARAMETER	MAX	UNIT
Rth(ch-c)	Channel-to-case thermal resistance	2.08	°C/W





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ELECTRICAL CHARACTERISTICS

Tc=25℃ unless otherwise specified

SYMBOL	PARAMETER	CONDITIONS	MIN	ТҮР	MAX	UNIT
BV _{DSS}	Drain-Source Breakdown Voltage	V _{GS} =0V; I _D = 10mA	500			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 =1.5A			3	Ω
lgss	Gate-Source Leakage Current	V _{GS} = ±30V;V _{DS} = 0V			±1	μА
I _{DSS}	Drain-Source Leakage Current	V _{DS} = 500V; V _{GS} = 0V			10	μ А
V_{SDF}	Diode forward voltage	I_{DR} =3A, V_{GS} = 0 V			1.7	V



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