

iscN-Channel MOSFET Transistor

TK2A65D

• FEATURES

- Low drain-source on-resistance: R_Ds(ON) = 3.26Ω (MAX)
- 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

DESCRITION

Switching Voltage Regulators

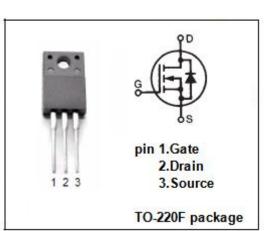
• ABSOLUTE MAXIMUM RATINGS(Ta=25°C)

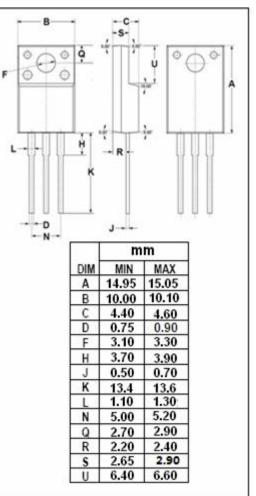
SYMBOL	PARAMETER	VALUE	UNIT
V _{DSS}	Drain-Source Voltage	650	V
V _{GS}	Gate-Source Voltage ±30		V
ID	Drain Current-Continuous	2	А
I _{DM}	Drain Current-Single Pulsed	8	А
PD	Total Dissipation @Tc=25℃	30	W
Tj	Max. Operating Junction Temperature	150	°C
T _{stg}	Storage Temperature	-55~150	°C

• THERMAL CHARACTERISTICS

SYMBOL	PARAMETER	MAX	UNIT
Rth(ch-c)	Channel-to-case thermal resistance	4.17	°C/W

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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	650			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 =1A			3.26	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} =2A, V _{GS} = 0 V			1.7	V



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