

isc N-Channel MOSFET Transistor

TK17E65W, ITK17E65W

• FEATURES

- Low drain-source on-resistance:
 R_Ds(on) ≤0.2Ω.
- Enhancement mode:
 Vth =2.5 to 3.5V (VDS = 10 V, ID=0.9mA)
- 100% avalanche tested
- Minimum Lot-to-Lot variations for robust device performance and reliable operation

DESCRITION

· Switching Voltage Regulators

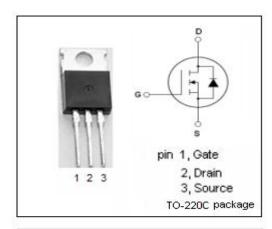


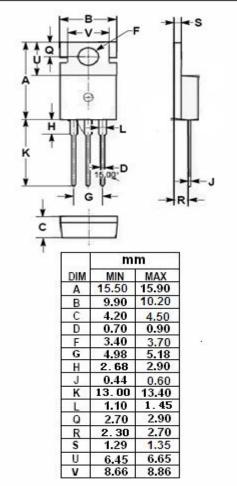
• ABSOLUTE MAXIMUM RATINGS(Ta=25°C)

SYMBOL	PARAMETER	VALUE	UNIT
V _{DSS}	Drain-Source Voltage	650	V
V _{GS}	Gate-Source Voltage	±30	V
I _D	Drain Current-Continuous	17.3	А
I _{DM}	Drain Current-Single Pulsed	69.2	А
P_D	Total Dissipation @T _C =25℃	165	W
Tj	Max. Operating Junction Temperature 150		${\mathbb C}$
T _{stg}	Storage Temperature	-55~150	${\mathbb C}$

THERMAL CHARACTERISTICS

SYMBOL	PARAMETER	MAX	UNIT
Rth(ch-c)	Channel-to-case thermal resistance	0.757	°C/W
Rth(ch-a)	(ch-a) Channel-to-ambient thermal resistance		°C/W







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ELECTRICAL CHARACTERISTICS

T_C=25℃ unless otherwise specified

SYMBOL	PARAMETER	CONDITIONS	MIN	ТҮР	MAX	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 =0.9mA	2.5		3.5	V
R _{DS(on)}	Drain-Source On-Resistance	V _{GS} =10V; I _D =8.7A			0.2	Ω
I _{GSS}	Gate-Source Leakage Current	V _{GS} = ±30V;V _{DS} = 0V			±1	μ А
I _{DSS}	Drain-Source Leakage Current	V _{DS} =650V; V _{GS} = 0V			10	μА
V _{SDF}	Diode forward voltage	I _{DR} =17.3A, V _{GS} = 0 V			1.7	V

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