

Isc N-Channel MOSFET Transistor

TK7A65W

FEATURES

- Low drain-source on-resistance: $RDS(ON) = 780m\Omega$ (MAX)
- Enhancement mode:
 Vth =2.5 to 3.5V (VDS = 10 V, ID=0.25mA)
- · 100% avalanche tested
- Minimum Lot-to-Lot variations for robust device performance and reliable operation

DESCRITION

Switching Voltage Regulators

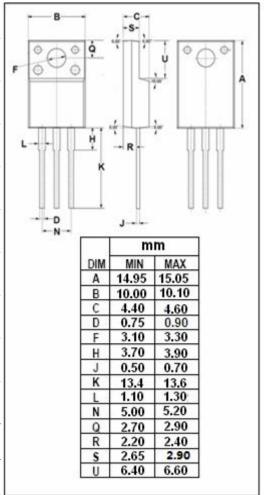
pin 1.Gate 2.Drain 3.Source TO-220F package

ABSOLUTE MAXIMUM RATINGS(T_a=25°C)

SYMBOL	PARAMETER	VALUE	UNIT
V _{DSS}	Drain-Source Voltage	650	V
V _{GS}	Gate-Source Voltage	±30	٧
I _D	Drain Current-Continuous 6.8		Α
Ірм	Drain Current-Single Pulsed	27.2	Α
P _D	Total Dissipation @T _C =25℃ 30		W
Tj	Max. Operating Junction Temperature 150		$^{\circ}$ C
T _{stg}	Storage Temperature	re -55~150	

• THERMAL CHARACTERISTICS

SYMBOL	PARAMETER	MAX	UNIT
Rth(ch-c)	Channel-to-case thermal resistance	4.17	°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	650			V
V _{GS(th)}	Gate Threshold Voltage	V _{DS} = 10V; I _D =0.25mA	2.5		3.5	V
R _{DS(on)}	Drain-Source On-Resistance	V _{GS} = 10V; I _D =3.4A			780	mΩ
lgss	Gate-Source Leakage Current	V _{GS} = ±30V;V _{DS} = 0V			±1	μА
I _{DSS}	Drain-Source Leakage Current	V _{DS} = 650V; V _{GS} = 0V			100	μА
V _{SDF}	Diode forward voltage	I _{DR} =6.8A, V _{GS} = 0 V			1.7	V



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