

iscN-Channel MOSFET Transistor

TK16A60W, ITK16A60W

FEATURES

- Low drain-source on-resistance: $R_{DS}(ON) = 0.16\Omega$ (typ.)
- · Easy to control Gate switching
- Enhancement mode: Vth = 2.7 to 3.7V (Vps = 10 V, Ip=0.79 mA)
- · 100% avalanche tested
- Minimum Lot-to-Lot variations for robust device performance and reliable operation





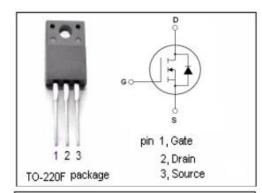
· Switching Voltage Regulators

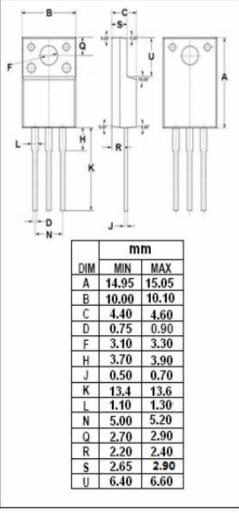
• ABSOLUTE MAXIMUM RATINGS(T_a=25°C)

SYMBOL	PARAMETER	VALUE	UNIT
V _{DSS}	Drain-Source Voltage	600	V
V _{GS}	Gate-Source Voltage	±30	V
I _D	Drain Current-Continuous 15		А
I _{DM}	Drain Current-Single Pulsed	63.2	А
P _D	Total Dissipation @T _C =25℃	40	W
Tj	Max. Operating Junction Temperature	150	$^{\circ}\mathbb{C}$
T _{stg}	Storage Temperature	-55~150	$^{\circ}\mathbb{C}$

• THERMAL CHARACTERISTICS

SYMBOL	PARAMETER	MAX	UNIT
Rth(ch-c)	Channel-to-case thermal resistance	3.13	°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	600			V
V _{GS(th)}	Gate Threshold Voltage	V _{DS} = 10V; I _D =0.79mA	2.7		3.7	V
R _{DS(on)}	Drain-Source On-Resistance	V _{GS} = 10V; I _D =7.9A		160	190	mΩ
I _{GSS}	Gate-Source Leakage Current	V _{GS} = ±30V;V _{DS} = 0V			±1	μ А
I _{DSS}	Drain-Source Leakage Current	V _{DS} = 600V; V _{GS} = 0V			10	μА
V _{SDF}	Diode forward voltage	I _{DR} = 15.8 A, V _{GS} = 0 V			1.7	V

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