

isc N-Channel MOSFET Transistor TK10A60W5, ITK10A60W5

FEATURES

- Low drain-source on-resistance: $RDS(ON) = 0.45\Omega$
- · Easy to control Gate switching
- Enhancement mode: Vth = 3 to 4.5V (Vps = 10 V, Ip=0.5 mA)
- · 100% avalanche tested
- Minimum Lot-to-Lot variations for robust device performance and reliable operation





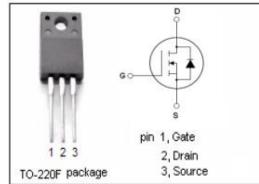


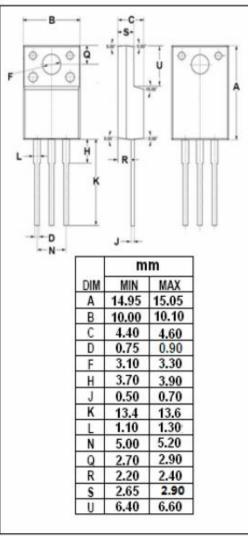
• ABSOLUTE MAXIMUM RATINGS(T_a=25°C)

SYMBOL	PARAMETER	VALUE	UNIT
V _{DSS}	Drain-Source Voltage	600	V
V _{GS}	Gate-Source Voltage	±30	V
I _D	Drain Current-Continuous		А
I _{DM}	Drain Current-Single Pulsed	38.8	А
P _D	Total Dissipation @T _C =25°C	30	W
Tj	Max. Operating Junction Temperature	ax. Operating Junction Temperature 150	
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
Rth(ch-a)	ch(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 = 0.5mA	3		4.5	V
R _{DS(on)}	Drain-Source On-Resistance	V _{GS} = 10V; I _D =4.9A			450	mΩ
I _{GSS}	Gate-Source Leakage Current	V _{GS} = ±30V;V _{DS} = 0V			±1	μА
I _{DSS}	Drain-Source Leakage Current	V _{DS} = 600V; V _{GS} = 0V			100	μ А
V _{SDF}	Diode forward voltage	I _{DR} = 9.7A, V _{GS} = 0 V			1.7	V

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