

iscN-Channel MOSFET Transistor

TK15A60D

• FEATURES

- Low drain-source on-resistance:
 R_{DS}(ON) = 370mΩ (MAX)
- Enhancement mode:Vth = 2 to 4V (VDS = 10 V, ID=1.0mA)
- 100% avalanche tested
- Minimum Lot-to-Lot variations for robust device performance and reliable operation



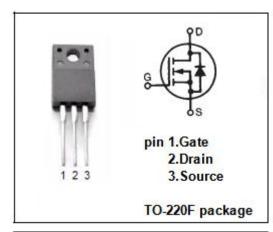
· Switching Voltage Regulators

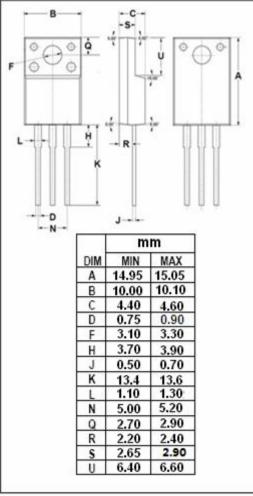
• ABSOLUTE MAXIMUM RATINGS(Ta=25°C)

SYMBOL	PARAMETER	VALUE	UNIT	
V _{DSS}	Drain-Source Voltage	600	V	
V _G s	Gate-Source Voltage ±30			
I _D	Drain Current-Continuous 15		А	
I _{DM}	Drain Current-Single Pulsed 60		А	
P _D	Total Dissipation @T _C =25°C 50		W	
Tj	ax. Operating Junction Temperature 150		$^{\circ}$	
T _{stg}	Storage Temperature	-55~150		

• THERMAL CHARACTERISTICS

SYMBOL	PARAMETER	MAX	UNIT
Rth(ch-c)	Channel-to-case thermal resistance	2.5	°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	600			V
V _{GS} (th)	Gate Threshold Voltage	V _{DS} = 10V; I _D =1.0mA	2		4	V
R _{DS(on)}	Drain-Source On-Resistance	V _{GS} =10V; I _D =7.5A			370	mΩ
lgss	Gate-Source Leakage Current	V _{GS} = ±30V;V _{DS} = 0V			±1	μА
I _{DSS}	Drain-Source Leakage Current	V _{DS} =600V; V _{GS} = 0V			10	μА
V_{SDF}	Diode forward voltage	I _{DR} =15A, V _{GS} = 0 V			1.7	V



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