

isc N-Channel MOSFET Transistor

TK20J60U

• FEATURES

- Low drain-source on-resistance: R_{DS}(ON) ≤ 190mΩ
- · Easy to control Gate switching
- Enhancement mode:
 Vth = 3 to 5V (VDS = 10 V, ID=1mA)
- 100% avalanche tested
- Minimum Lot-to-Lot variations for robust device performance and reliable operation

DESCRITION

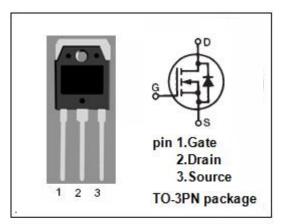
· Switching Voltage Regulators

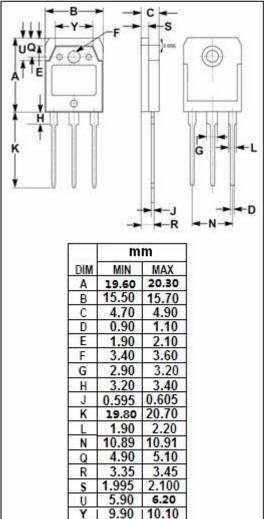
ABSOLUTE MAXIMUM RATINGS(Ta=25°C)

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

THERMAL CHARACTERISTICS

SYMBOL	PARAMETER	MAX	UNIT
Rth(ch-c)	Channel-to-case thermal resistance	0.658	°C/W







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ELECTRICAL CHARACTERISTICS

Tc=25℃ unless otherwise specified

SYMBOL	PARAMETER	CONDITIONS	MIN	ТҮР	МАХ	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 =1mA	3		5	V
R _{DS(on)}	Drain-Source On-Resistance	V _{GS} = 10V; I _D =10A			190	mΩ
lgss	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			100	μА
V _{SDF}	Diode forward voltage	I _{DR} =20 A, V _{GS} = 0 V			1.7	V

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