

iscN-Channel MOSFET Transistor

TK60J25D

FEATURES

- Low drain-source on-resistance:
 R_{DS}(ON) = 27mΩ (MAX.) (V_{GS} = 10 V)
- Enhancement mode: Vth = 1.5 to 3.5V (VDS = 10 V, ID=1.0mA)
- 100% avalanche tested
- Minimum Lot-to-Lot variations for robust device performance and reliable operation

• DESCRITION

Switching Voltage Regulators

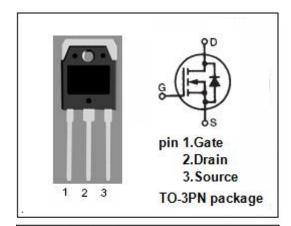


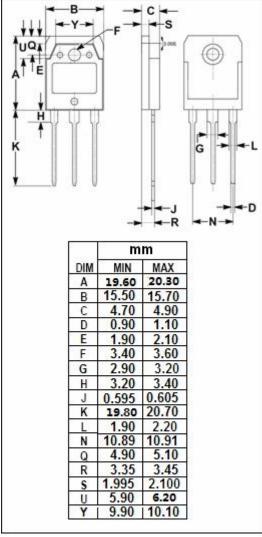
• ABSOLUTE MAXIMUM RATINGS(Ta=25°C)

SYMBOL	PARAMETER	VALUE	UNIT
V _{DSS}	Drain-Source Voltage	200	V
V _{GS}	Gate-Source Voltage	±20	V
I _D	Drain Current-Continuous	70	А
І _{ОМ}	Drain Current-Single Pulsed	210	А
P _D	Total Dissipation @T _C =25°C 410		W
Тј	Max. Operating Junction Temperature 150		°C
T _{stg}	Storage Temperature -55~150		°C

• THERMAL CHARACTERISTICS

SYMBOL	PARAMETER	MAX	UNIT
Rth(ch-c)	Channel-to-case thermal resistance	0.305	°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	200			V
V _{GS(th)}	Gate Threshold Voltage	V _{DS} = 10V; I _D =1.0mA	1.5		3.5	V
R _{DS(on)}	Drain-Source On-Resistance	V _{GS} =10V; I _D =35A			27	mΩ
lgss	Gate-Source Leakage Current	V _{GS} = ±20V;V _{DS} = 0V			±1	μА
I _{DSS}	Drain-Source Leakage Current	V _{DS} = 200V; V _{GS} = 0V			10	μ А
V_{SDF}	Diode forward voltage	I _{DR} =70A, V _{GS} = 0 V			1.7	V



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