

iscN-Channel MOSFET Transistor

TK5P60W

• FEATURES

- Low drain-source on-resistance: $R_{DS}(ON) = 0.77\Omega$ (typ.)
- · Easy to control Gate switching
- Enhancement mode: Vth = 2.7 to 3.7V (Vps = 10 V, lp=0.27mA)
- 100% avalanche tested
- Minimum Lot-to-Lot variations for robust device performance and reliable operation

DESCRITION

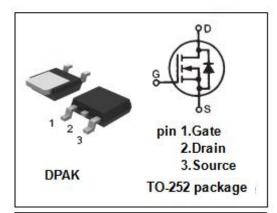
Switching Voltage Regulators

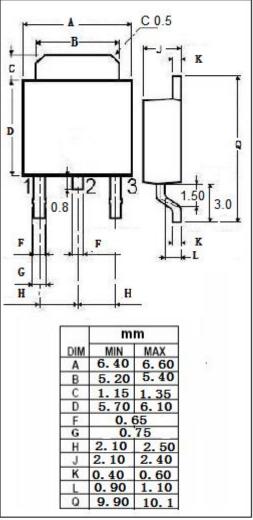
• ABSOLUTE MAXIMUM RATINGS(Ta=25°C)

SYMBOL	PARAMETER	VALUE	UNIT
V_{DSS}	Drain-Source Voltage	600	V
V_{GS}	Gate-Source Voltage	±30	V
I _D	Drain Current-Continuous	5.4	А
I _{DM}	Drain Current-Single Pulsed	21.6	А
P _D	Total Dissipation @T _C =25℃	30	W
Tj	Max. Operating Junction Temperature 150		$^{\circ}$ C
T _{stg}	Storage Temperature -55~150		$^{\circ}$

• THERMAL CHARACTERISTICS

SYMBOL	PARAMETER	MAX	UNIT
Rth(ch-c)	Channel-to-case thermal resistance	4.17	°C/W







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ELECTRICAL CHARACTERISTICS

Tc=25℃ unless otherwise specified

SYMBOL	PARAMETER	CONDITIONS	MIN	TYP	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 =0.27mA	2.7		3.7	V
R _{DS(on)}	Drain-Source On-Resistance	V _{GS} = 10V; I _D =2.7A		770	900	mΩ
Igss	Gate-Source Leakage Current	V _{GS} = ±30V;V _{DS} = 0V			±1	μ A
I _{DSS}	Drain-Source Leakage Current	V _{DS} = 600V; V _{GS} = 0V			10	μ А
V _{SDF}	Diode forward voltage	I _{DR} =5.4A, V _{GS} = 0 V			1.7	V



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