

Isc N-Channel MOSFET Transistor

TK7P60W

• FEATURES

- Low drain-source on-resistance:
 RDs(ON) = 0.5Ω (typ.)
- · Easy to control Gate switching
- Enhancement mode: Vth = 2.7 to 3.7V (Vps = 10 V, lp=0.35mA)
- · 100% avalanche tested
- Minimum Lot-to-Lot variations for robust device performance and reliable operation



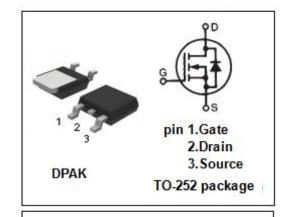
· Switching Voltage Regulators

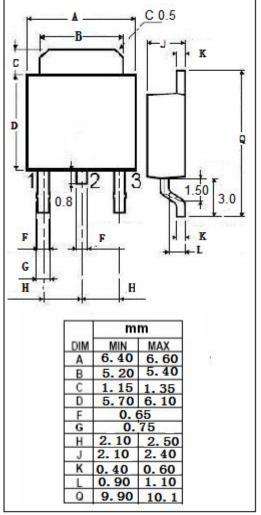
• ABSOLUTE MAXIMUM RATINGS(Ta=25°C)

SYMBOL	PARAMETER	VALUE	UNIT
V _{DSS}	Drain-Source Voltage	600	V
V _{GS}	Gate-Source Voltage ±30		V
I _D	Drain Current-Continuous 7.0		А
Ірм	Drain Current-Single Pulsed 28		А
P _D	Total Dissipation @T _C =25℃ 30		W
Tj	Max. Operating Junction Temperature	tion Temperature 150	
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	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 =0.35mA	2.7		3.7	V
R _{DS(on)}	Drain-Source On-Resistance	V _{GS} = 10V; I _D =3.5A		500	600	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} =7.0A, V _{GS} = 0 V			1.7	V



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