

iscN-Channel MOSFET Transistor

TK8P25DA

• FEATURES

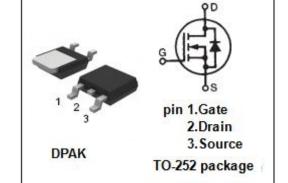
• Low drain-source on-resistance: Rps(ON) = 0.5Ω (MAX)

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



Switching Voltage Regulators

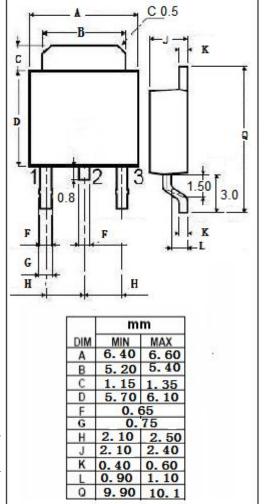


• ABSOLUTE MAXIMUM RATINGS(Ta=25°C)

SYMBOL	PARAMETER	VALUE	UNIT
V _{DSS}	Drain-Source Voltage	250	V
V _{GS}	Gate-Source Voltage	±20	V
I _D	Drain Current-Continuous	7.5	Α
І _{ОМ}	Drain Current-Single Pulsed	30	А
P _D	Total Dissipation @T _C =25°C	55	W
Tj	Max. 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	2.27	°C/W



isc website: www.iscsemi.cn

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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	250			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 =3.8A			500	mΩ
lgss	Gate-Source Leakage Current	V _{GS} = ±20V;V _{DS} = 0V			±1	μА
I _{DSS}	Drain-Source Leakage Current	V _{DS} =250V; V _{GS} = 0V			10	μА
V _{SDF}	Diode forward voltage	I _{DR} =7.5A, V _{GS} = 0 V			1.7	V

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