

isc N-Channel MOSFET Transistor

TK14G65W5

FEATURES

- Low drain-source on-resistance:
 R_Ds(on) ≤0.3Ω.
- Enhancement mode:
 Vth =3 to 4.5V (Vps = 10 V, Ip=0.69mA)
- · 100% avalanche tested
- Minimum Lot-to-Lot variations for robust device performance and reliable operation

DESCRITION

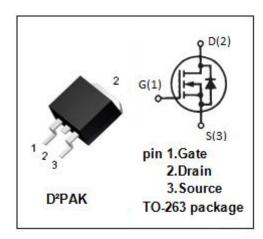
Switching Voltage Regulators

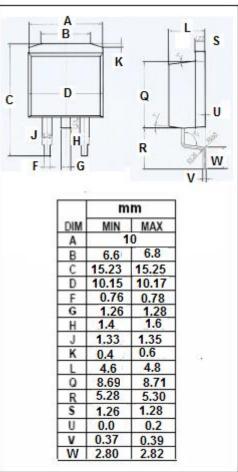
• ABSOLUTE MAXIMUM RATINGS(Ta=25°C)

SYMBOL	PARAMETER	VALUE	UNIT	
$V_{ extsf{DSS}}$	Drain-Source Voltage	650	V	
V _{GS}	Gate-Source Voltage	±30	V	
I _D	Drain Current-Continuous	13.7	Α	
I _{DM}	Drain Current-Single Pulsed	54.8	Α	
P_D	Total Dissipation @T _C =25℃	130	W	
Tj	Max. Operating Junction Temperature	150	$^{\circ}$	
T _{stg}	Storage Temperature	-55~150	${\mathbb C}$	

• THERMAL CHARACTERISTICS

SYMBOL	PARAMETER	MAX	UNIT
Rth(ch-c)	Channel-to-case thermal resistance	0.962	°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	650			V
V _{GS(th)}	Gate Threshold Voltage	V _{DS} =10V; I _D =0.69mA	3		4.5	V
R _{DS(on)}	Drain-Source On-Resistance	V _{GS} =10V; I _D =6.9A			0.3	Ω
lgss	Gate-Source Leakage Current	V _{GS} = ±30V;V _{DS} = 0V			±1	μА
I _{DSS}	Drain-Source Leakage Current	V _{DS} =650V; V _{GS} = 0V			100	μА
V _{SDF}	Diode forward voltage	I _{DR} =13.7A, V _{GS} = 0 V			1.7	V



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