

isc N-Channel MOSFET Transistor

TK11Q65W, ITK11Q65W

• FEATURES

- Low drain-source on-resistance: R_{DS}(on) ≤0.44 Ω .
- Enhancement mode: Vth =2.5 to 3.5V (VDS = 10 V, ID=0.45mA)
- 100% avalanche tested
- · Minimum Lot-to-Lot variations for robust device performance and reliable operation

DESCRITION

· Switching Voltage Regulators

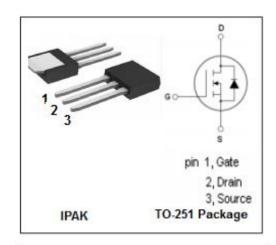


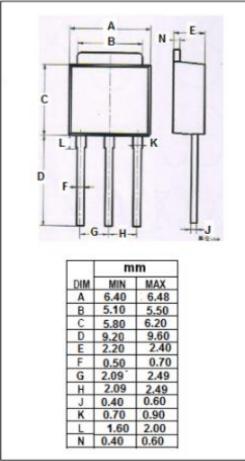
ABSOLUTE MAXIMUM RATINGS(T_a=25°C)

SYMBOL	PARAMETER	VALUE	UNIT
V _{DSS}	Drain-Source Voltage	650	V
V_{GS}	Gate-Source Voltage	±30	V
I _D	Drain Current-Continuous	11.1	А
I _{DM}	Drain Current-Single Pulsed	44.4	А
P _D	Total Dissipation @T _C =25℃	100	W
Tj	Max. Operating Junction Temperature	150	°C
T _{stg}	Storage Temperature	-55~150	$^{\circ}\!\mathbb{C}$

THERMAL CHARACTERISTICS

SYMBOL	PARAMETER	MAX	UNIT
Rth(ch-c)	Channel-to-case thermal resistance	1.25	°C/W
Rth(ch-a)	Channel-to-ambient thermal resistance		°C/W







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ELECTRICAL CHARACTERISTICS

T_c=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 =0.45mA	2.5		3.5	V
R _{DS(on)}	Drain-Source On-Resistance	V _{GS} =10V; I _D =5.5A			0.44	Ω
I _{GSS}	Gate-Source Leakage Current	V _{GS} = ±30V;V _{DS} =0V			±1	μА
l _{DSS}	Drain-Source Leakage Current	V _{DS} =650V; V _{GS} = 0V			10	μ A
V _{SDF}	Diode forward voltage	I _{DR} =11.1A, V _{GS} = 0 V			1.7	V

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