

iscN-Channel MOSFET Transistor

TK17J65U

• FEATURES

Low drain-source on-resistance:
RDS(on) = 0.26Ω(MAX)

Low leakage current:
IDSS = 100 μA (max) (VDS = 650 V)

Enhancement mode: Vth = 3.0 to 5.0V (VDS = 10 V, ID=1mA)

- 100% avalanche tested
- Minimum Lot-to-Lot variations for robust device performance and reliable operation

DESCRITION

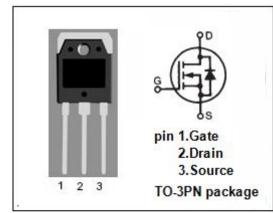
· Switching Voltage Regulators

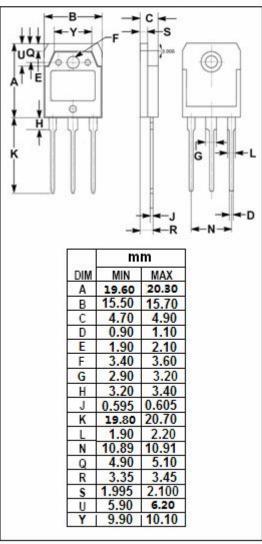
ABSOLUTE MAXIMUM RATINGS(T_a=25°C)

SYMBOL	PARAMETER	VALUE	UNIT
$V_{ extsf{DSS}}$	Drain-Source Voltage	650	V
V_{GS}	Gate-Source Voltage	±30	V
I _D	Drain Current-Continuous 13.7		А
I _{DM}	Drain Current-Single Pulsed		А
P_D	Total Dissipation @T _c =25°C 45		W
Tj	Max. Operating Junction Temperature	150	$^{\circ}$
T _{stg}	Storage Temperature	-55~150	$^{\circ}$

• THERMAL CHARACTERISTICS

SYMBOL	PARAMETER	MAX	UNIT
Rth(ch-c)	Channel-to-case thermal resistance	2.78	°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
$V_{\text{GS(th)}}$	Gate Threshold Voltage	V _{DS} = 10V; I _D =1mA	3.0		5.0	V
R _{DS(on)}	Drain-Source On-Resistance	V _{GS} = 10V; I _D =8.5A			260	mΩ
less	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} =17A, V _{GS} = 0 V			1.7	V



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