

isc N-Channel MOSFET Transistor

TK11A65D

• FEATURES

- Drain-source on-resistance:
 $R_{DS(on)} \leq 0.7\Omega @ 10V$
- Fast Switching Speed
- 100% avalanche tested
- Minimum Lot-to-Lot variations for robust device performance and reliable operation

• APPLICATIONS

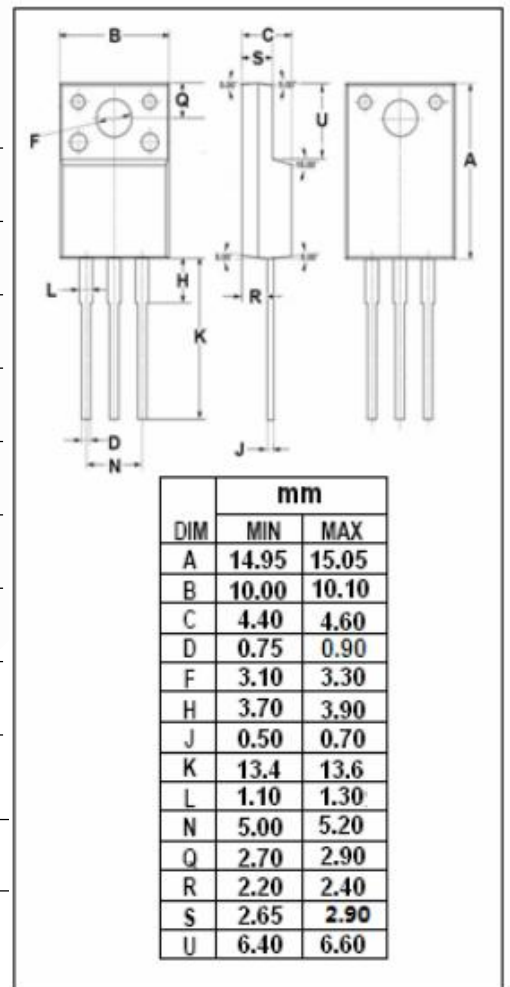
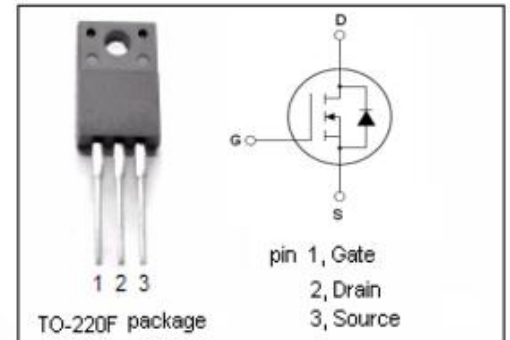
- High fast switching Power Supply

• ABSOLUTE MAXIMUM RATINGS($T_a=25^\circ C$)

SYMBOL	PARAMETER	VALUE	UNIT
V_{DSS}	Drain-Source Voltage	650	V
V_{GS}	Gate-Source Voltage	± 30	V
I_D	Drain Current-Continuous	11	A
I_{DM}	Drain Current-Single Pulsed	44	A
P_D	Total Dissipation @ $T_c=25^\circ C$	45	W
T_j	Max. Operating Junction Temperature	150	$^\circ C$
T_{stg}	Storage Temperature	-55~150	$^\circ C$

• THERMAL CHARACTERISTICS

SYMBOL	PARAMETER	MAX	UNIT
$R_{th(ch-c)}$	Channel-to-case thermal resistance	2.78	$^\circ C/W$



isc N-Channel MOSFET Transistor**TK11A65D****ELECTRICAL CHARACTERISTICS** $T_C=25^{\circ}\text{C}$ unless otherwise specified

SYMBOL	PARAMETER	CONDITIONS	MIN	TYP	MAX	UNIT
BV_{DSS}	Drain-Source Breakdown Voltage	$V_{GS}=0V; I_D=250\ \mu A$	650			V
$V_{GS(th)}$	Gate Threshold Voltage	$V_{DS}=V_{GS}; I_D=250\ \mu A$	2		4	V
$R_{DS(on)}$	Drain-Source On-Resistance	$V_{GS}=10V; I_D=5.5A$			0.7	Ω
I_{GSS}	Gate-Source Leakage Current	$V_{GS}=\pm 30V; V_{DS}=0V$			± 1	μA
I_{DSS}	Drain-Source Leakage Current	$V_{DS}=650V; V_{GS}=0V$			10	μA
V_{SD}	Diode forward on voltage	$I_{SD}=11A, V_{GS}=0V$			1.7	V

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