

isc N-Channel MOSFET Transistor

TK35N65W

FEATURES

- Static Drain-Source On-Resistance
: $R_{DS(on)} = 80\text{m}\Omega$ (Max)
- Fast Switching
- 100% avalanche tested
- Minimum Lot-to-Lot variations for robust device performance and reliable operation

APPLICATION

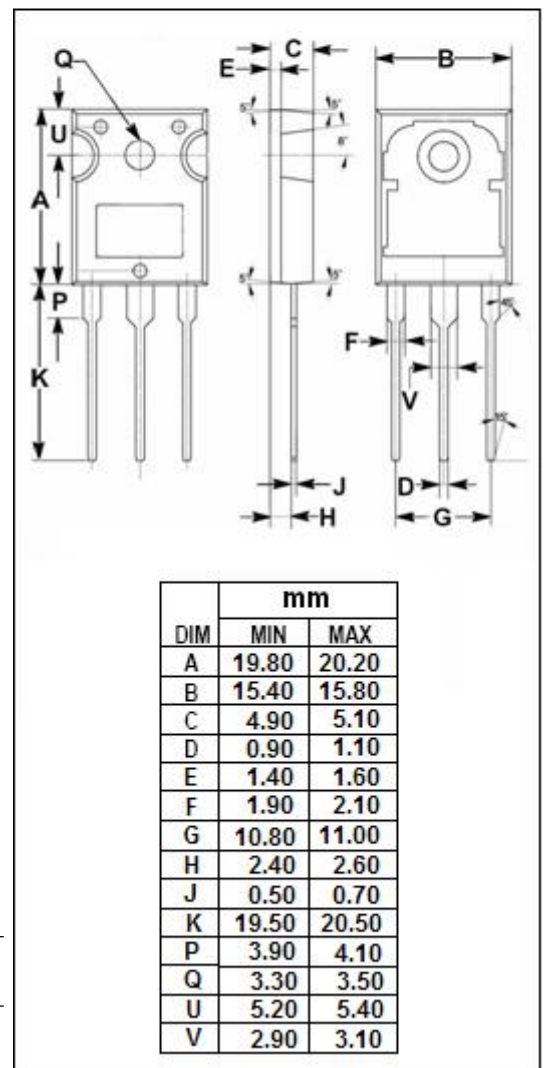
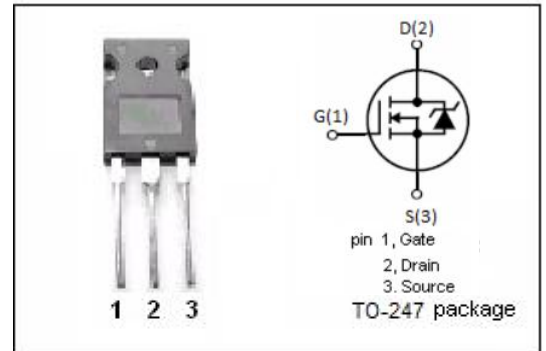
- Designed for use in switch mode power supplies and general purpose applications.

ABSOLUTE MAXIMUM RATINGS($T_a=25^\circ\text{C}$)

SYMBOL	PARAMETER	VALUE	UNIT
V_{DS}	Drain-Source Voltage	650	V
V_{GS}	Gate-Source Voltage-Continuous	± 30	V
I_D	Drain Current-Continuous	35	A
I_{DM}	Drain Current-Single Pulse	140	A
P_D	Total Dissipation @ $T_c=25^\circ\text{C}$	270	W
T_J	Operating Junction Temperature	-55~150	$^\circ\text{C}$
T_{stg}	Storage Temperature	-55~150	$^\circ\text{C}$

THERMAL CHARACTERISTICS

SYMBOL	PARAMETER	MAX	UNIT
$R_{th\ j-c}$	Thermal Resistance, Junction to Case	0.46	$^\circ\text{C/W}$



isc N-Channel MOSFET Transistor**TK35N65W****ELECTRICAL CHARACTERISTICS** $T_C=25^{\circ}\text{C}$ unless otherwise specified

SYMBOL	PARAMETER	CONDITIONS	MIN	MAX	UNIT
$V_{(BR)DSS}$	Drain-Source Breakdown Voltage	$V_{GS}=0$; $I_D=10\text{mA}$	650		V
$V_{GS(th)}$	Gate Threshold Voltage	$V_{DS}=V_{GS}$; $I_D=2.1\text{mA}$	2.5	3.5	V
$R_{DS(on)}$	Drain-Source On-Resistance	$V_{GS}=10\text{V}$; $I_D=17.5\text{A}$		80	$\text{m}\Omega$
I_{GSS}	Gate-Body Leakage Current	$V_{GS}=\pm 30\text{V}$; $V_{DS}=0$		± 1	μA
I_{DSS}	Zero Gate Voltage Drain Current	$V_{DS}=650\text{V}$; $V_{GS}=0$		10	μA
V_{SD}	Forward On-Voltage	$I_S=35\text{A}$; $V_{GS}=0$		1.7	V

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