

isc N-Channel MOSFET Transistor

IPU60R3K4CE

• FEATURES

- With TO-251(IPAK) packaging
- High speed switching
- Easy to use
- 100% avalanche tested
- Minimum Lot-to-Lot variations for robust device performance and reliable operation

• APPLICATIONS

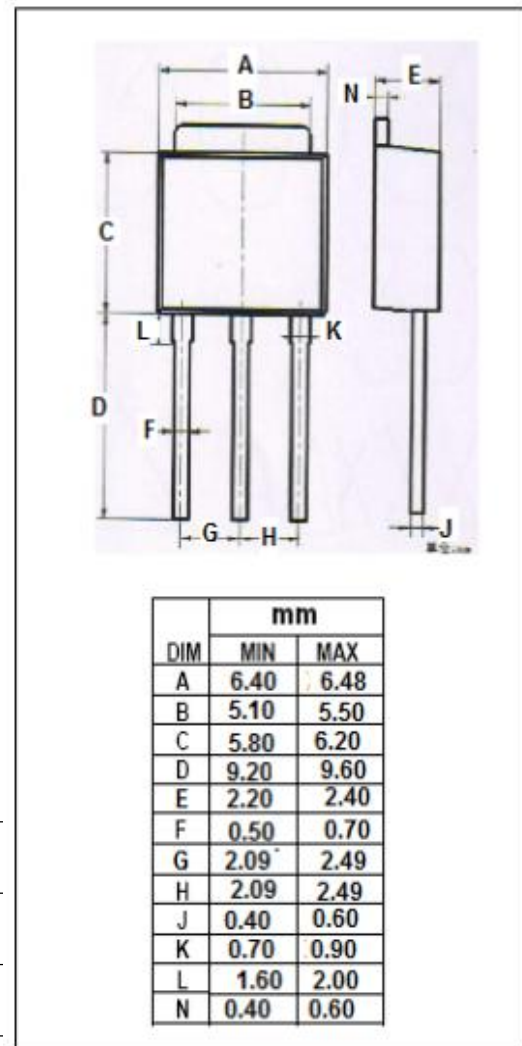
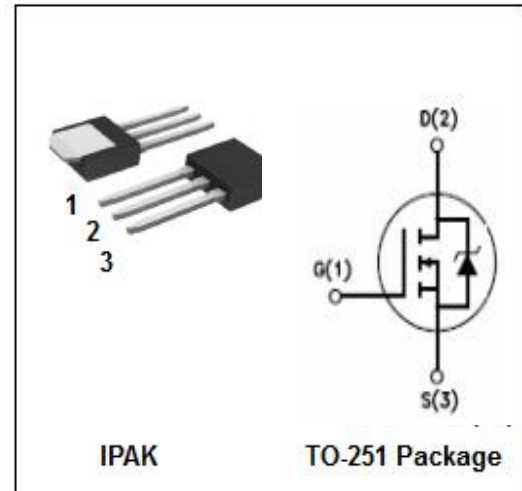
- Power supply
- DC-DC converters
- Motor control
- Switching applications

• ABSOLUTE MAXIMUM RATINGS(T_a=25°C)

SYMBOL	PARAMETER	VALUE	UNIT
V _{DSS}	Drain-Source Voltage	600	V
V _{GSS}	Gate-Source Voltage	±30	V
I _D	Drain Current-Continuous	2.6	A
I _{DM}	Drain Current-Single Pulsed	3.9	A
P _D	Total Dissipation	29	W
T _j	Operating Junction Temperature	-40~150	°C
T _{stg}	Storage Temperature	-40~150	°C

• THERMAL CHARACTERISTICS

SYMBOL	PARAMETER	MAX	UNIT
R _{th(ch-c)}	Channel-to-case thermal resistance	4.26	°C/W
R _{th(ch-a)}	Channel-to-ambient thermal resistance	62	°C/W



isc N-Channel MOSFET Transistor**IPU60R3K4CE****ELECTRICAL CHARACTERISTICS**T_C=25°C unless otherwise specified

SYMBOL	PARAMETER	CONDITIONS	MIN	TYP	MAX	UNIT
BV _{DSS}	Drain-Source Breakdown Voltage	V _{GS} =0V; I _D = 0.25mA	600			V
V _{GS(th)}	Gate Threshold Voltage	V _{DS} =V _{GS} ; I _D =0.04mA	2.5		3.5	V
R _{DS(on)}	Drain-Source On-Resistance	V _{GS} = 10V; I _D =0.5A		3.17	3.4	Ω
I _{GSS}	Gate-Source Leakage Current	V _{GS} = ±20V; V _{DS} = 0V			±0.1	μA
I _{DSS}	Drain-Source Leakage Current	V _{DS} = 600V; V _{GS} = 0V; T _J =25°C V _{DS} = 600V; V _{GS} = 0V; T _J =150°C			1 100	μA
V _{SDF}	Diode forward voltage	I _{SD} =0.6A, V _{GS} =0V		0.9		V

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