

Isc N-Channel MOSFET Transistor
BUZ30AH3045A
• FEATURES

- With TO-263(D² PAK) packaging
- High speed switching
- Low gate input resistance
- Standard level gate drive
- Easy to use
- 100% avalanche tested
- Minimum Lot-to-Lot variations for robust device performance and reliable operation

• APPLICATIONS

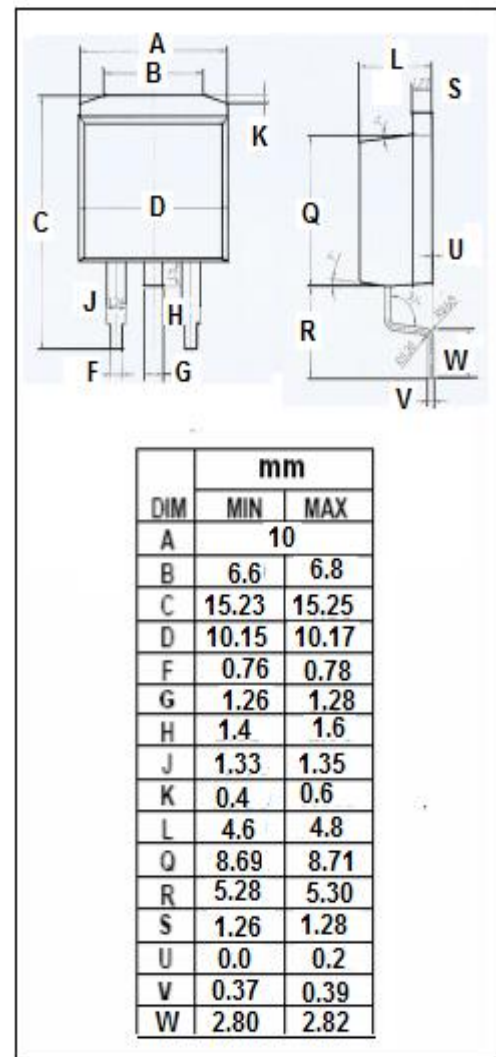
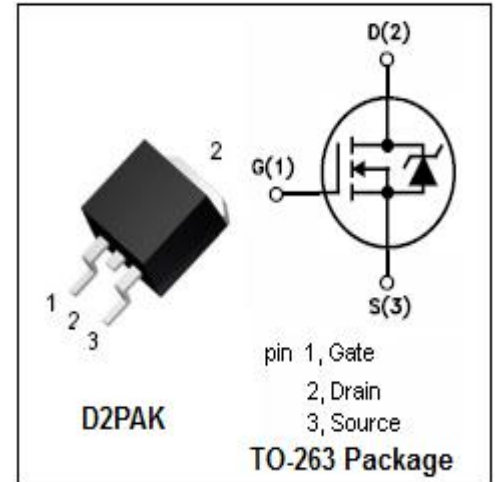
- Power supply
- Switching applications

• ABSOLUTE MAXIMUM RATINGS(T_a=25°C)

SYMBOL	PARAMETER	VALUE	UNIT
V _{DSS}	Drain-Source Voltage	200	V
V _{GS}	Gate-Source Voltage	±20	V
I _D	Drain Current-Continuous	21	A
P _D	Total Dissipation @T _C =25°C	125	W
T _J	Max. Operating Junction Temperature	-55~175	°C
T _{stg}	Storage Temperature	-55~175	°C

• THERMAL CHARACTERISTICS

SYMBOL	PARAMETER	MAX	UNIT
R _{th(j-c)}	Channel-to-case thermal resistance	≤1	°C/W



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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 = 250uA	200			V
V _{GS(th)}	Gate Threshold Voltage	V _{DS} =V _{GS} ; I _D = 1mA	2.1	3	4	V
R _{DS(on)}	Drain-Source On-Resistance	V _{GS} = 10V; I _D = 13.5A		0.1	0.13	mΩ
I _{GSS}	Gate-Source Leakage Current	V _{GS} = ±20V; V _{DS} = 0V		± 10	± 100	nA
I _{DSS}	Drain-Source Leakage Current	V _{DS} = 200V; V _{GS} = 0V		0.1	1	μA
V _{SD}	Diode forward voltage	I _s = 42A, V _{GS} = 0V		1.2	1.6	V

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