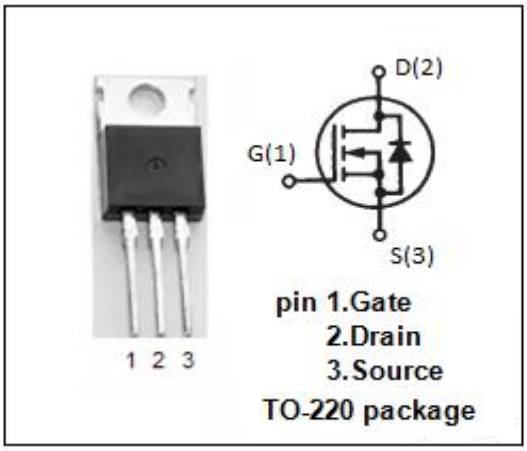
isc N-Channel MOSFET Transistor BUK657-400A/B



DESCRIPTION

- Drain Source Voltage
  : V_{DSS}= 400V(Min)
- Low $R_{DS(ON)}$
- Fast Switching Speed
- Minimum Lot-to-Lot variations for robust device performance and reliable operation

APPLICATIONS

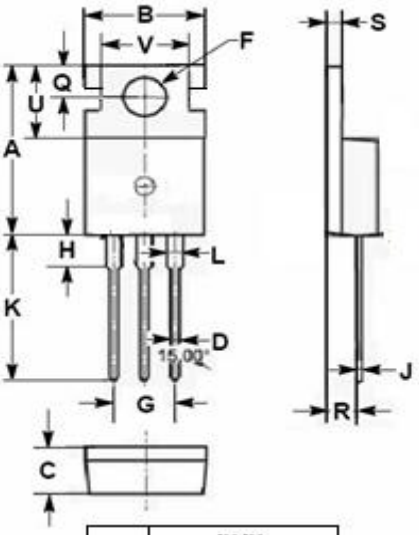
- Designed for Switched Mode Power Supplies (SMPS), motor control,welding, and in general purpose switching resistance applications

ABSOLUTE MAXIMUM RATINGS(T_a=25℃)

SYMBOL	ARAMETER		VALUE	UNIT
V_{DSS}	Drain-Source Voltage (V_{GS}=0)		400	V
V_{GS}	Gate-Source Voltage		±30	V
I_D	Drain Current-continuous@ TC=25℃	BUK657-400A	13	A
		BUK657-400B	11	
P_{tot}	Total Dissipation@TC=25℃		150	W
T_j	Max. Operating Junction Temperature		150	℃
T_{stg}	Storage Temperature Range		-55-150	℃

THERMAL CHARACTERISTICS

SYMBOL	PARAMETER	MAX	UNIT
$R_{th\ j\text{-}c}$	Thermal Resistance,Junction to Case	0.83	℃/W



DIM	mm MIN	MAX
A	15.50	15.90
B	9.80	10.20
C	4.20	4.50
D	0.70	0.90
F	3.40	3.70
G	4.98	5.18
H	2.68	2.90
J	0.44	0.60
K	12.80	13.40
L	1.20	1.45
Q	2.70	2.90
R	2.30	2.70
S	1.29	1.35
U	6.45	6.65
V	8.66	8.86

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ELECTRICAL CHARACTERISTICS (T_C=25℃)

SYMBOL	PARAMETER	CONDITIONS		MIN	MAX	UNIT
$V_{(BR)DSS}$	Drain-Source Breakdown Voltage	V_{GS}= 0; I_D= 0.25mA		400	--	V
$V_{GS(th)}$	Gate Threshold Voltage	V_{DS}= V_{GS}; I_D= 1.0mA		2.1	40	V
$R_{DS(on)}$	Drain-Source On-stage Resistance	V_{GS}= 10V; I_D= 6.5A	BUK657-400A	--	0.5	Ω
			BUK657-400B	--	0.6	Ω
I_{GSS}	Gate Source Leakage Current	V_{GS}= ±30V;V_{DS}= 0		--	±100	nA
I_{DSS}	Zero Gate Voltage Drain Current	V_{DS}= 400V; V_{GS}= 0		--	20	uA
V_{SD}	Forward On-Voltage	I_S= 13A; V_{GS}= 0		--	1.5	V

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