

isc N-Channel MOSFET Transistor

BUK455-600A/B

DESCRIPTION

- Drain Source Voltage
 : V_{DSS}= 600V(Min)
- Low R_{DS(ON)}
- · Fast Switching Speed
- Minimum Lot-to-Lot variations for robust device performance and reliable operation



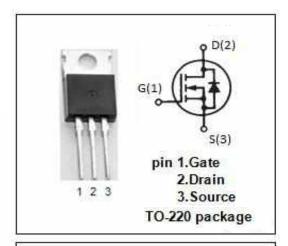
 Designed for Switched Mode Power Supplies (SMPS), motor control,welding, and in general purpose switching resistance applications

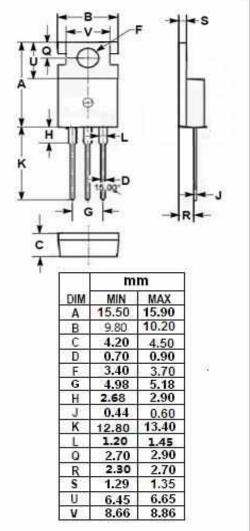
ABSOLUTE MAXIMUM RATINGS(Ta=25°C)

SYMBOL	ARAMETER		VALUE	UNIT	
V _{DSS}	Drain-Source Voltage (V _{GS} =0)		600	V	
V _{GS}	Gate-Source Voltage		±30	±30 V	
I _D	Drain Current-continuou s@ TC=25°C	BUK455-600A	4.5	A	
		BUK455-600B	4.0		
P _{tot}	Total Dissipation@TC=25°C		100	W	
Tj	Max. Operating Junction Temperature		150	$^{\circ}$	
T _{stg}	Storage Temperature Range		-55-150	$^{\circ}$	

THERMAL CHARACTERISTICS

SYMBOL	PARAMETER	MAX	UNIT
R _{th j-c}	Thermal Resistance,Junction to Case	1.25	°C/W





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ELECTRICAL CHARACTERISTICS (Tc=25°C)

SYMBOL	PARAMETER	CONDITIONS		MIN	MAX	UNIT
$V_{(BR)DSS}$	Drain-Source Breakdown Voltage	V _{GS} = 0; I _D = 0.25mA		600		V
V _{GS(th)}	Gate Threshold Voltage	V _{DS} = V _{GS} ; I _D = 1.0mA		2.1	4.0	V
R _{DS(on)}	Drain-Source On-stage Resistance	V _{GS} = 10V; I _D = 2.5A	BUK455-600A		2.0	Ω
			BUK455-600B	1	2.5	Ω
lgss	Gate Source Leakage Current	V _{GS} = ±30V;V _{DS} = 0			±100	nA
I _{DSS}	Zero Gate Voltage Drain Current	V _{DS} = 600V; V _{GS} = 0			20	uA
V_{SD}	Forward On-Voltage	I _S = 4.5A; V _{GS} = 0			1.5	V

NOTICE:

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