

این دیتاشیت توسط توکل الکترونیک تهیه و ارائه شده است.
جهت مشاهده قیمت، موجودی و ثبت سفارش این قطعه به وبسایت توکل الکترونیک مراجعه فرمایید.



مشاهده قیمت و خرید

برای خرید و مشاهده سایر محصولات کلیک کنید



isc®

INCHARGE SEMICONDUCTOR

isc N-Channel MOSFET Transistor

BUK454-200A/B

DESCRIPTION

- Drain Source Voltage-
: $V_{DSS}=200V(\text{Min})$
- Low $R_{DS(ON)}$
- Fast Switching Speed
- Minimum Lot-to-Lot variations for robust device performance and reliable operation

APPLICATIONS

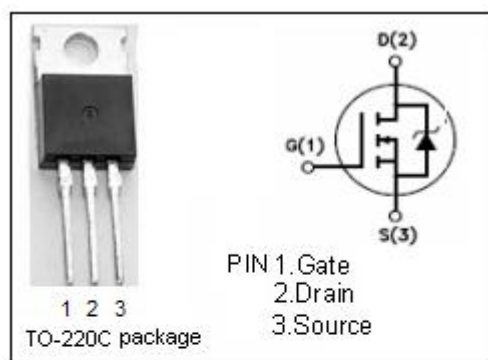
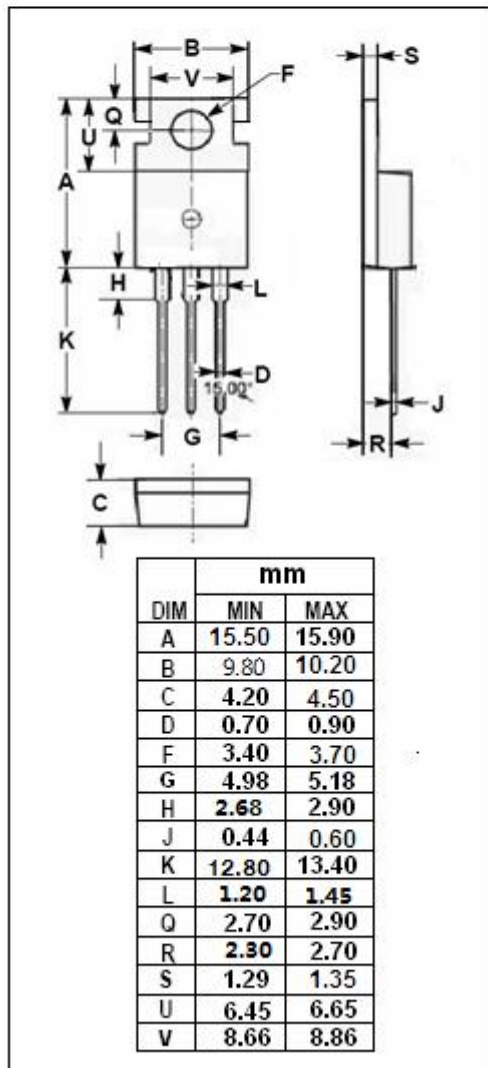
- Designed for Switched Mode Power Supplies (SMPS), motor control, welding, and in general purpose switching resistance application

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

SYMBOL	PARAMETER	VALUE	UNIT
V_{DSS}	Drain-Source Voltage ($V_{GS}=0$)	200	V
V_{GS}	Gate-Source Voltage	± 30	V
I_D	Drain Current-continuous @ $TC=37^\circ\text{C}$	BUK454-200A	9.2
		BUK454-200B	8.2
P_{tot}	Total Dissipation @ $TC=25^\circ\text{C}$	90	W
T_j	Max. Operating Junction Temperature	175	$^\circ\text{C}$
T_{stg}	Storage Temperature Range	175	$^\circ\text{C}$

THERMAL CHARACTERISTICS

SYMBOL	PARAMETER	MAX	UNIT
$R_{th j-c}$	Thermal Resistance, Junction to Case	1.67	$^\circ\text{C/W}$
$R_{th j-a}$	Thermal Resistance, Junction to Ambient	60	$^\circ\text{C/W}$



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BUK454-200A/B

• ELECTRICAL CHARACTERISTICS (T_c=25°C)

SYMBOL	PARAMETER	CONDITIONS	MIN	TYP	MAX	UNIT
V _{(BR)DSS}	Drain-Source Breakdown Voltage	V _{GS} =0; I _D = 0.25mA	200			V
V _{GS(th)}	Gate Threshold Voltage	V _{DS} =V _{GS} ; I _D =1mA	2.1		4.0	V
R _{DS(on)}	Drain-Source On-stage Resistance	V _{GS} =10V; I _D =3.5A			0.4	Ω
		BUK454-200B			0.5	Ω
I _{GSS}	Gate Source Leakage Current	V _{GS} = ±30V; V _{DS} = 0			±100	nA
I _{DSS}	Zero Gate Voltage Drain Current	V _{DS} =200V; V _{GS} = 0			10	uA
V _{SD}	Diode Forward Voltage	I _F =9.2A; V _{GS} =0			1.3	V
G _{fs}	Forward Transconductance	V _{DS} = 25V; I _D = 3.5A	3.5			S
t _r	Rise time	V _{GS} =10V; I _D =2.9A; R _{GS} =50 Ω		45	70	ns
t _{on}	Turn-on time			12	20	ns
t _f	Fall time			40	60	ns
t _{off}	Turn-off time			80	120	ns

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