

isc N-Channel MOSFET Transistor

BUK7520-55A

DESCRIPTION

- Drain Source Voltage: V_{DSS}= 55V(Min)
- Low R_{DS(ON)}
- · Fast Switching Speed
- Minimum Lot-to-Lot variations for robust device performance and reliable operation



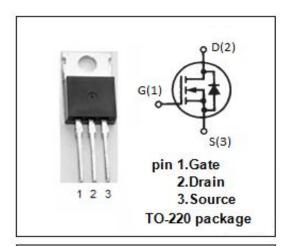
 Designed for Switched Mode Power Supplies (SMPS), motor control,welding, and in general purpose switching resistance applications

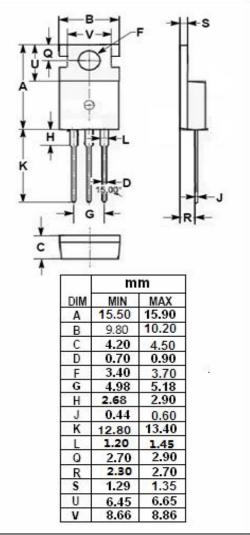
ABSOLUTE MAXIMUM RATINGS(Ta=25°C)

SYMBOL	ARAMETER	VALUE	UNIT
V _{DSS}	Drain-Source Voltage (V _{GS} =0)	55	V
V _{GS}	Gate-Source Voltage	±20	V
I _D	Drain Current-continuous@ TC=25℃	54	А
P _{tot}	Total Dissipation@TC=25℃	118	W
T _j	Max. Operating Junction Temperature	175	$^{\circ}$
T _{stg}	Storage Temperature Range	-55-175	$^{\circ}$

THERMAL CHARACTERISTICS

SYMBOL	PARAMETER	MAX	UNIT
Rth j-c	Thermal Resistance,Junction to Case	1.2	°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	55		V
V _{GS(th)}	Gate Threshold Voltage	V_{DS} = V_{GS} ; I_D = 1.0mA	2.0	4.0	V
R _{DS(on)}	Drain-Source On-stage Resistance	V _{GS} = 10V; I _D = 25A		20	mΩ
l _{GSS}	Gate Source Leakage Current	V _{GS} = ±20V;V _{DS} = 0		±100	n A
I _{DSS}	Zero Gate Voltage Drain Current	V _{DS} = 55V; V _{GS} = 0		10	uA
V _{SD}	Forward On-Voltage	I _S = 20A; V _{GS} = 0		1.2	V

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