

isc N-Channel MOSFET Transistor

BUK7606-55A

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



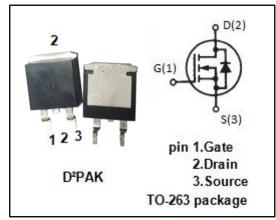
 Designed for Switched Mode Power Supplies (SMPS), motor control,welding, and in general purpose switching resistance applications

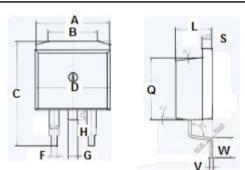
ABSOLUTE MAXIMUM RATINGS(Ta=25°C)

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℃	154	А
P _{tot}	Total Dissipation@TC=25℃	300	W
Tj	Max. Operating Junction Temperature	175	$^{\circ}$ C
T _{stg}	Storage Temperature Range	-55-175	$^{\circ}$ C

THERMAL CHARACTERISTICS

SYMBOL	PARAMETER	MAX	UNIT
R _{th j-c}	Thermal Resistance,Junction to Case	0.5	°C/W





DIM	m	ım
DIIVI	MIN	MAX
Α	9.8	10.2
В	6.6	6.8
C	15.1	15.3
D	9.6	10
F	0.7	0.9
G	1.26	1.3
Н	1.2	1.45
L	4.4	4.6
Q	9.2	9.3
S	1.25	1.35
V	0.4	0.6
W	2.6	2.8

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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	1	13.2	mΩ
I _{GSS}	Gate Source Leakage Current	V _{GS} = ±20V;V _{DS} = 0	-1	±100	nA
I _{DSS}	Zero Gate Voltage Drain Current	V _{DS} = 55V; V _{GS} = 0		10	uA
V _{SD}	Forward On-Voltage	I _S = 30A; V _{GS} = 0		1.2	V

NOTICE:

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