

isc N-Channel MOSFET Transistor

BUK9230-55A

FEATURES

• Drain Current : I_D= 88A@ T_C=25 °C

• Drain Source Voltage

: V_{DSS}= 55V(Min)

Static Drain-Source On-Resistance

: $R_{DS(on)} = 27m \Omega (Max)$

· 100% avalanche tested

 Minimum Lot-to-Lot variations for robust device performance and reliable operation

DESCRIPTION

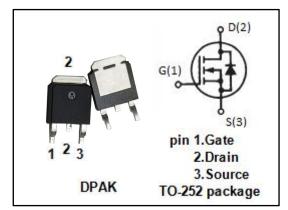
 motor drive, DC-DC converter, power switch and solenoid drive.

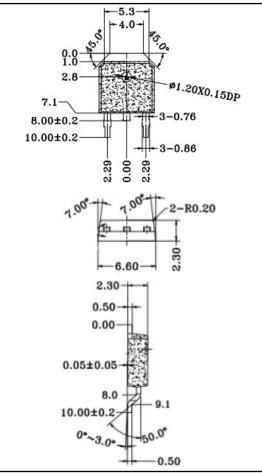
ABSOLUTE MAXIMUM RATINGS(Ta=25°C)

SYMBOL	PARAMETER	VALUE	UNIT
V _{DSS}	Drain-Source Voltage	55	V
V _{GS}	Gate-Source Voltage-Continuous	±15	V
I _D	Drain Current-Continuous	38	А
I _{DM}	Drain Current-Single Pluse	88	А
P _D	Total Dissipation @T _C =25°C 88		W
TJ	Max. Operating Junction Temperature -55~175		$^{\circ}$
T _{stg}	Storage Temperature -55~175		$^{\circ}$

THERMAL CHARACTERISTICS

SYMBOL	PARAMETER	MAX	UNIT
R _{th j-c}	Thermal Resistance, Junction to Case	0.587	°C/W







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ELECTRICAL CHARACTERISTICS

T_C=25℃ unless otherwise specified

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} = 10V; I _D = 1mA	1.0	2.0	V
R _{DS(on)}	Drain-Source On-Resistance	V _{GS} = 10V; I _D = 15A		27	m Ω
I _{GSS}	Gate-Body Leakage Current	V _{GS} = ±10V;V _{DS} = 0		±0.1	uA
I _{DSS}	Zero Gate Voltage Drain Current	V _{DS} = 55V; V _{GS} = 0		500	uA
V _{SD}	Forward On-Voltage	I _S = 25A; V _{GS} = 0	-	1.2	V

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