

isc N-Channel Mosfet Transistor

BUZ64

FEATURES

- 11.5A, 400V
- SOA is Power Dissipation Limited
- · Nanosecond Switching Speeds
- · Linear Transfer Characteristics
- · High Input Impedance
- Majority Carrier Device
- Minimum Lot-to-Lot variations for robust device performance and reliable operation



DESCRITION

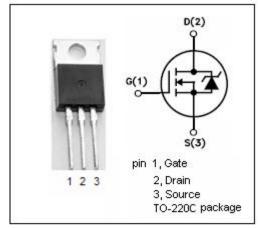
Designed for applications such as switching regulators, switching converters, motor drivers, relay drivers and drivers for high power bipolar switching transistors requiring high speed and low gate drive power.

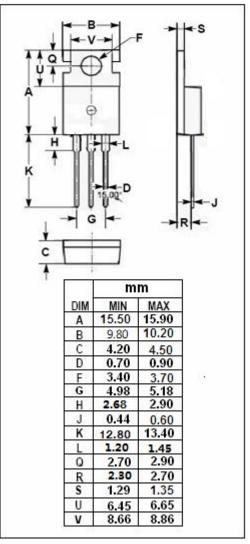


SYMBOL	ARAMETER	VALUE	UNIT
V _{DSS}	Drain-Source Voltage (V _{GS} =0)	400	V
V _{GS}	Gate-Source Voltage ±20		٧
I _D	Drain Current-continuous@ TC=37°C	Α	
P _{tot}	Total Dissipation@TC=25℃ 125		W
T _j	Max. Operating Junction Temperature -55~150		$^{\circ}$
T _{stg}	Storage Temperature Range	-55~150	$^{\circ}$

THERMAL CHARACTERISTICS

SYMBOL	PARAMETER	MAX	UNIT
R _{th j-c}	Thermal Resistance,Junction to Case	1.67	°C/W
R _{th j-a} Thermal Resistance,Junction to Ambient		75	°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	400		V
V _{GS(TH)}	Gate Threshold Voltage	$V_{DS} = V_{GS}$; $I_D = 10$ mA	2.1	4	V
R _{DS(ON)}	Drain-Source On-stage Resistance	V _{GS} = 10V; I _D = 5A		0.4	Ω
I _{GSS}	Gate Source Leakage Current	V _{GS} = ±20V;V _{DS} = 0		±100	nA
I _{DSS}	Zero Gate Voltage Drain Current	V _{DS} = 400V; V _{GS} = 0		250	uA
V _{SD}	Diode Forward Voltage	I _F =11A; V _{GS} = 0		1.6	V

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