

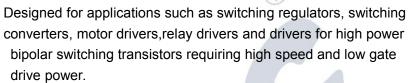
isc N-Channel Mosfet Transistor

BUZ60

FEATURES

- 5.5A, 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

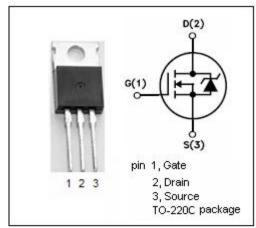


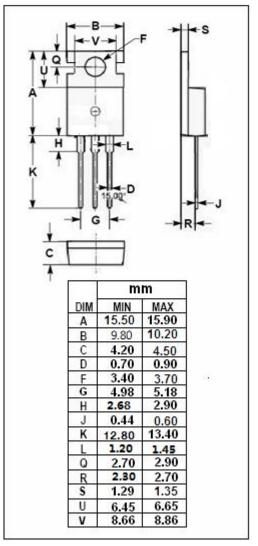


SYMBOL	ARAMETER	VALUE	UNIT	
V _{DSS}	Drain-Source Voltage (V _{GS} =0)	400	V	
V _{GS}	Gate-Source Voltage	±20	V	
I _D	Drain Current-continuous@ TC=35℃	5.5	Α	
I _{DM}	Drain Current-Single Plused	22	Α	
P _{tot}	Total Dissipation@TC=25°C	75	W	
T _j	Max. Operating Junction Temperature	150	$^{\circ}$	
T _{stg}	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		°C/W







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ELECTRICAL CHARACTERISTICS

T_C=25℃ unless otherwise specified

SYMBOL	PARAMETER	CONDITIONS	MIN	TYPE	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 =1mA	2.1		4.0	V
V _{SD}	Diode Forward On-voltage	I _S = 11A ;V _{GS} = 0			1.6	V
R _{DS(on)}	Drain-Source On-Resistance	V _{GS} = 10V; I _D = 2.5A			1.0	Ω
Igss	Gate-Body Leakage Current	V _{GS} = ±20V;V _{DS} = 0			±100	nA
I _{DSS}	Zero Gate Voltage Drain Current	V _{DS} =400V; V _{GS} = 0			250	μΑ
Gfs	Forward Transconductance	V _{DS} = 25V; I _D =2.5A	1.7			S
t _{d(on)}	Turn-on Delay Time	V _{GS} =10V;			45	
t _r	Rise Time	I _D =2.7A;			60	
$t_{\sf d(off)}$	Turn-off Delay Time	V_{DD} =30V; R_{GS} =50 Ω			140	ns
t _f	Fall Time				65	

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