

این دیتاشیت توسط توکل الکترونیک تهیه و ارائه شده است.
جهت مشاهده قیمت، موجودی و ثبت سفارش این قطعه به وبسایت توکل الکترونیک مراجعه فرمایید.



مشاهده قیمت و خرید

برای خرید و مشاهده سایر محصولات کلیک کنید



isc®

INCHARGE SEMICONDUCTOR

isc N-Channel Mosfet Transistor

BUZ72A

• FEATURES

- Low $R_{DS(on)}$
- SOA is Power Dissipation Limited
- Nanosecond Switching Speeds
- 100% avalanche tested
- Minimum Lot-to-Lot variations for robust device performance and reliable operation

• DESCRIPTION

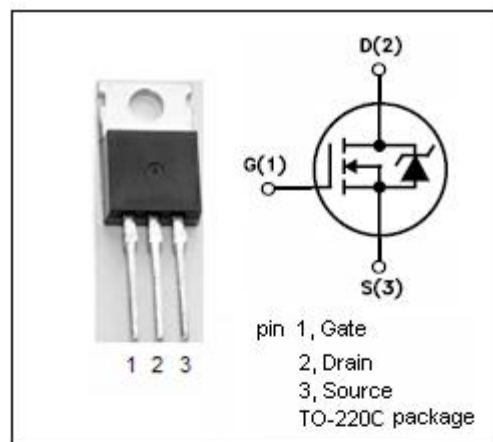
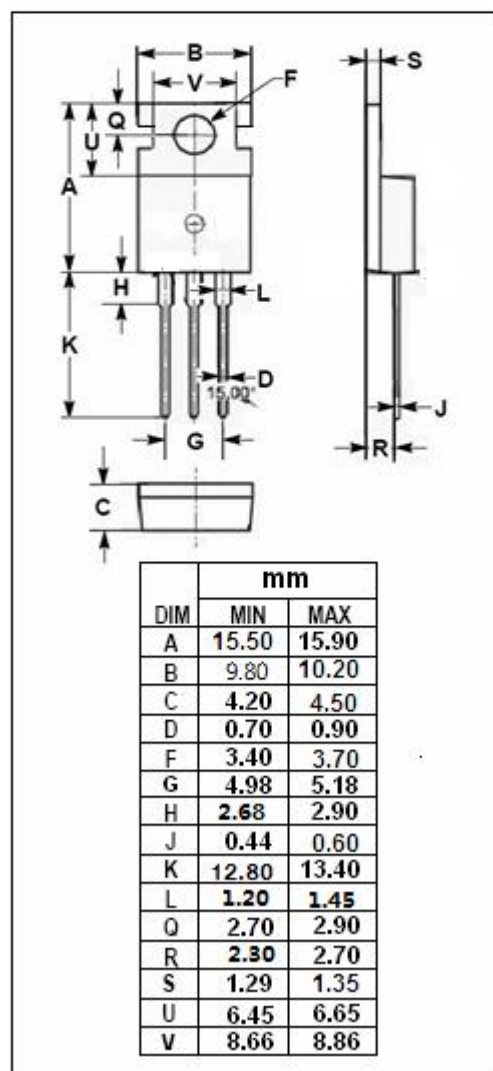
- High current , high speed switching
- Solenoid and relay drivers
- DC-DC & DC-AC converters

• ABSOLUTE MAXIMUM RATINGS($T_a=25^{\circ}\text{C}$)

SYMBOL	PARAMETER	VALUE	UNIT
V_{DS}	Drain-Source Voltage ($V_{GS}=0$)	100	V
V_{GS}	Gate-Source Voltage	± 20	V
I_D	Drain Current-continuous@ $TC=25^{\circ}\text{C}$	11	A
I_{DM}	Drain Current-Single Pulsed	44	A
P_{tot}	Total Dissipation@ $TC=25^{\circ}\text{C}$	70	W
T_j	Max. Operating Junction Temperature	175	$^{\circ}\text{C}$
T_{stg}	Storage Temperature Range	-65~175	$^{\circ}\text{C}$

THERMAL CHARACTERISTICS

SYMBOL	PARAMETER	MAX	UNIT
$R_{th\ j-c}$	Thermal Resistance, Junction to Case	2.14	$^{\circ}\text{C/W}$
$R_{th\ j-a}$	Thermal Resistance, Junction to Ambient	62.5	$^{\circ}\text{C/W}$



isc N-Channel Mosfet Transistor**BUZ72A****ELECTRICAL CHARACTERISTICS****T_C=25°C unless otherwise specified**

SYMBOL	PARAMETER	CONDITIONS	MIN	TYPE	MAX	UNIT
V _{(BR)DSS}	Drain-Source Breakdown Voltage	V _{GS} = 0; I _D =0.25mA	100			V
V _{GS(th)}	Gate Threshold Voltage	V _{DS} = V _{GS} ; I _D =0.25mA	2		4.0	V
V _{SD}	Diode Forward On-voltage	I _S = 22A; V _{GS} = 0			1.6	V
R _{DS(on)}	Drain-Source On-Resistance	V _{GS} = 10V; I _D = 5A			0.25	Ω
I _{GSS}	Gate-Body Leakage Current	V _{GS} = ±20V; V _{DS} = 0			±100	nA
I _{DSS}	Zero Gate Voltage Drain Current	V _{DS} =100V; V _{GS} = 0			250	μA
G _{fs}	Forward Transconductance	V _{DS} = 25V; I _D =5A	2.7			S
t _{d(on)}	Turn-on Delay Time	V _{GS} =10V; I _D =5.5A; V _{DD} =50V; R _{GS} =4.7 Ω			15	ns
t _r	Rise Time				75	
t _{d(off)}	Turn-off Delay Time				40	
t _f	Fall Time				30	

NOTICE:

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