

isc N-Channel Mosfet Transistor

BUZ24

• FEATURES

- · Static Drain-Source On-Resistance
 - : $R_{DS(on)} = 0.06 \Omega (Max)$
- · SOA is Power Dissipation Limited
- · High speed switching
- Minimum Lot-to-Lot variations for robust device performance and reliable operation

DESCRITION

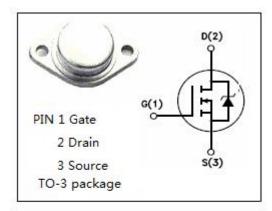
Designed for applications such as switching regulators, switching converters, motor drivers, relay drivers and drivers for high power bipolar switching transistors requiring high speed and low gate drive power.

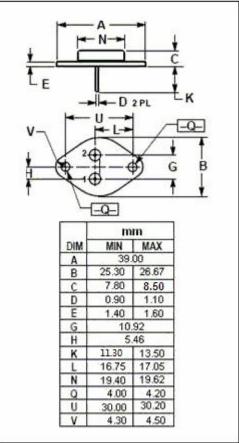


SYMBOL	ARAMETER	VALUE	UNIT	
V _{DSS}	Drain-Source Voltage (V _{GS} =0)	100	V	
V _{GS}	Gate-Source Voltage	±20	V	
I _D	Drain Current-continuous@ TC=27°C 32		Α	
I _{DM}	Drain Current-Single Plused	128	Α	
P _{tot}	Total Dissipation@TC=25℃	125	W	
T _j	Max. Operating Junction Temperature 150		$^{\circ}$	
T _{stg}	Storage Temperature Range -55~150		$^{\circ}$	

THERMAL CHARACTERISTICS

SYMBOL	PARAMETER	MAX	UNIT
R _{th j-c}	Thermal Resistance,Junction to Case	1.0	°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	100			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 = 64A ;V _{GS} = 0			1.7	V
R _{DS(on)}	Drain-Source On-Resistance	V _{GS} = 10V; I _D = 20A			0.06	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			1	μΑ
Gfs	Forward Transconductance	V _{DS} = 25V; I _D =20A	10			S
t _{d(on)}	Turn-on Delay Time	V _{GS} =10V;			45	
t r	Rise Time	I _D =3A;			125	
$t_{d(off)}$	Turn-off Delay Time	V_{DD} =30V; R_{GS} =50 Ω			320	ns
t _f	Fall Time				160	

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