

isc N-Channel Mosfet Transistor

BUZ36

FEATURES

- Static Drain-Source On-Resistance
 - : $R_{DS(on)} = 0.12 \Omega (Max)$
- · SOA is Power Dissipation Limited
- · High speed switching
- Minimum Lot-to-Lot variations for robust device performance and reliable operation

DESCRITION

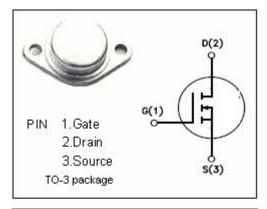
Designed for applications such as switching regulators, switching converters, motor drivers, relay drivers and drivers for high power bipolar switching transistors requiring high speed and low gate drive power.

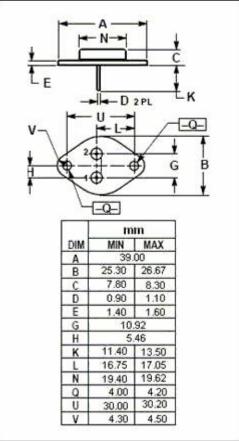
• ABSOLUTE MAXIMUM RATINGS(T_a=25°C)

SYMBOL	ARAMETER	VALUE	UNIT
V _{DSS}	Drain-Source Voltage (V _{GS} =0)	200	V
V _{GS}	Gate-Source Voltage	±20	V
I _D	Drain Current-continuous@ TC=35℃	22	Α
I _{DM}	Drain Current-Single Plused	85	Α
P _{tot}	Total Dissipation@TC=25℃	125	W
Tj	Max. Operating Junction Temperature	150	$^{\circ}$
T _{stg}	Storage Temperature Range -55~150		$^{\circ}\mathbb{C}$

THERMAL CHARACTERISTICS

SYMBOL	PARAMETER	MAX	UNIT
R _{th j-c}	Thermal Resistance, Junction to Case 1.0		°C/W
R _{th j-a}	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	200			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 = 44A ;V _{GS} = 0			1.7	V
R _{DS(on)}	Drain-Source On-Resistance	V _{GS} = 10V; I _D = 11A			0.12	Ω
Igss	Gate-Body Leakage Current	V _{GS} = ±20V;V _{DS} = 0			±100	nA
I _{DSS}	Zero Gate Voltage Drain Current	V _{DS} =200V; V _{GS} = 0			250	μΑ
Gfs	Forward Transconductance	V _{DS} = 25V; I _D =11A	9.0			S
t _{d(on)}	Turn-on Delay Time	V _{GS} =10V;			45	
t _r	Rise Time	I _D =3A;			110	
$t_{\sf d(off)}$	Turn-off Delay Time	V_{DD} =30V; R_{GS} =50 Ω			430	ns
t _f	Fall Time				160	

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