

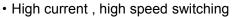
isc N-Channel Mosfet Transistor

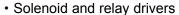
BUZ₁₀

FEATURES

- Drain Current -I_D=23A@ T_C=25°C
- Static Drain-Source On-Resistance
 - : $R_{DS(on)} = 0.07 \Omega (Max)$
- 175°C operating temperature
- · 100% avalanche tested
- Minimum Lot-to-Lot variations for robust device performance and reliable operation

DESCRITION





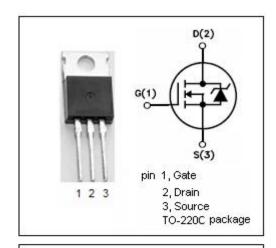
• DC-DC & DC-AC converters

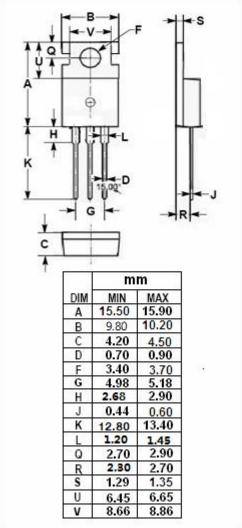
• ABSOLUTE MAXIMUM RATINGS(T_a=25°C)

SYMBOL	ARAMETER	VALUE	UNIT
V _{DSS}	Drain-Source Voltage (V _{GS} =0)	50	V
V _{GS}	Gate-Source Voltage	±20	V
I _D	Drain Current-continuous@ TC=25°C	23	Α
I _{DM}	Drain Current-Single Plused	92	Α
P _{tot}	Total Dissipation@TC=25°C	75	W
T _j	Max. Operating Junction Temperature	175	$^{\circ}$
T _{stg}	Storage Temperature Range	-65~175	$^{\circ}$

THERMAL CHARACTERISTICS

SYMBOL	PARAMETER	MAX	UNIT
R _{th j-c}	Thermal Resistance,Junction to Case	2.0	°C/W
R _{th j-a}	Thermal Resistance,Junction to Ambient	62.5	°C/W







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BUZ10

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	50		V
V _{GS(TH)}	Gate Threshold Voltage	$V_{DS} = V_{GS}$; $I_D = 1 \text{mA}$	2.1	4	V
R _{DS(ON)}	Drain-Source On-stage Resistance	V _{GS} = 10V; I _D = 14A		0.07	Ω
I _{GSS}	Gate Source Leakage Current	V _{GS} = ±20V;V _{DS} = 0		±100	nA
I _{DSS}	Zero Gate Voltage Drain Current	V _{DS} = 50V; V _{GS} = 0		1	uA
V _{SD}	Diode Forward Voltage	I _F = 46A; V _{GS} = 0		1.9	V
Gfs	Forward Transconductance	V _{DS} = 25V; I _D =14A	6.0		S

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