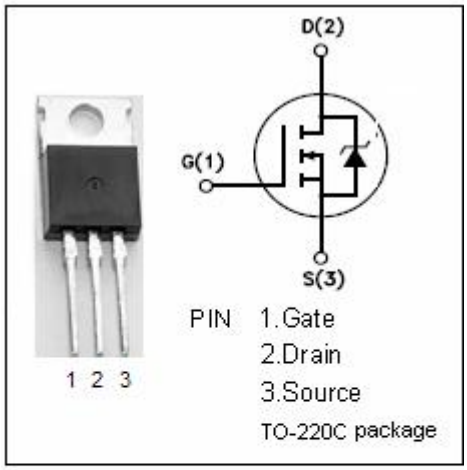
isc N-Channel MOSFET Transistor BUZ12A



DESCRIPTION

- Static Drain-Source On-Resistance
  : $R_{DS(on)}$ = 0.035Ω (Max)
- SOA is Power Dissipation Limited
- High input impedance

APPLICATIONS

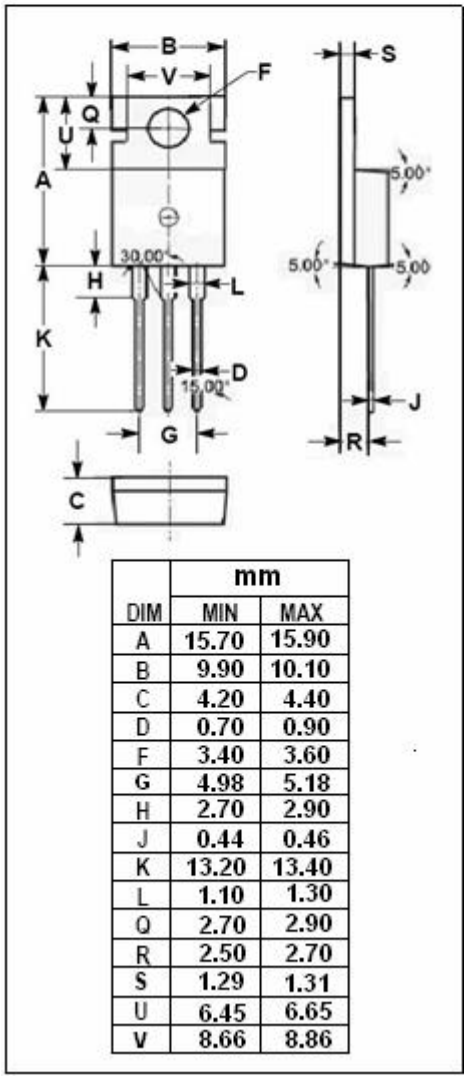
designed for applications such as switching regulators, switching converters, motor drivers,relay drivers and drivers for high power bipolar switching transistors requiring high speed and low gate drive power.

ABSOLUTE MAXIMUM RATINGS(T_a=25℃)

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=37℃	42	A
P_{tot}	Total Dissipation@TC=25℃	125	W
T_j	Max. Operating Junction Temperature	-55~150	℃
T_{stg}	Storage Temperature Range	-55~150	℃

THERMAL CHARACTERISTICS

SYMBOL	PARAMETER	MAX	UNIT
$R_{th\ j\text{-}c}$	Thermal Resistance,Junction to Case	1	℃/W
$R_{th\ j\text{-}a}$	Thermal Resistance,Junction to Ambient	75	℃/W



DIM	mm MIN	MAX
A	15.70	15.90
B	9.90	10.10
C	4.20	4.40
D	0.70	0.90
F	3.40	3.60
G	4.98	5.18
H	2.70	2.90
J	0.44	0.46
K	13.20	13.40
L	1.10	1.30
Q	2.70	2.90
R	2.50	2.70
S	1.29	1.31
U	6.45	6.65
V	8.66	8.86

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• **ELECTRICAL CHARACTERISTICS (T_C=25℃)**

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= 1mA	2.1	4	V
$R_{DS(ON)}$	Drain-Source On-stage Resistance	V_{GS}= 10V; I_D= 32A		0.035	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= 84A; V_{GS}= 0		2.2	V

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