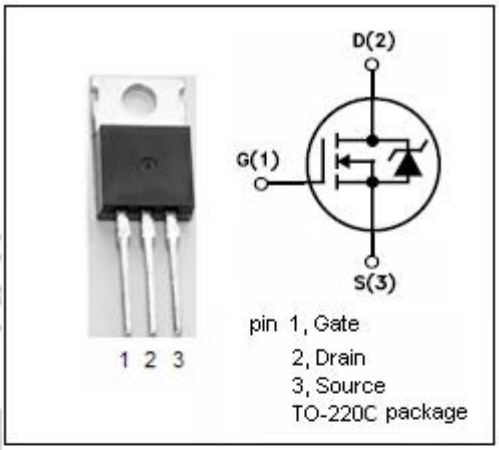
isc N-Channel MOSFET Transistor 2N18



• FEATURES

- Drain Current I_D= 2A@ T_C=25℃
- Drain Source Voltage-
  : V_{DSS}= 180V(Min)
- Static Drain-Source On-Resistance
  : $R_{DS(on)}$ = 3.5Ω (Max)
- Fast Switching

• APPLICATIONS

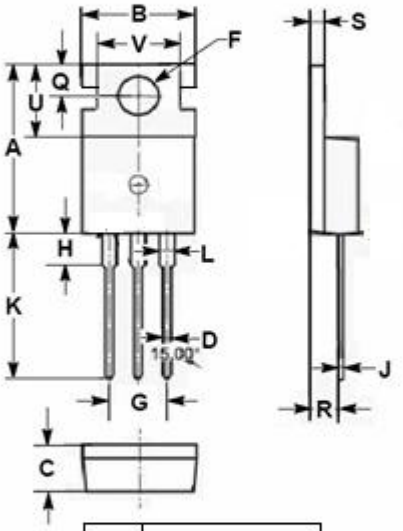
- Switching power supplies,converters,AC and DC motor controls

• ABSOLUTE MAXIMUM RATINGS(T_a=25℃)

SYMBOL	PARAMETER	VALUE	UNIT
V_{DSS}	Drain-Source Voltage	180	V
V_{GS}	Gate-Source Voltage-Continuous	±20	V
I_D	Drain Current-Continuous	2	A
I_{DM}	Drain Current-Single Plused	9	A
P_D	Total Dissipation @T_C=25℃	25	W
T_j	Max. Operating Junction Temperature	150	℃
T_{stg}	Storage Temperature	-55~150	℃

• THERMAL CHARACTERISTICS

SYMBOL	PARAMETER	MAX	UNIT
$R_{th\ j\text{-}c}$	Thermal Resistance, Junction to Case	2.5	℃/W
$R_{th\ j\text{-}a}$	Thermal Resistance, Junction to Ambient	80	℃/W



DIM	mm MIN	MAX
A	15.50	15.90
B	9.80	10.20
C	4.20	4.50
D	0.70	0.90
F	3.40	3.70
G	4.98	5.18
H	2.68	2.90
J	0.44	0.60
K	12.80	13.40
L	1.20	1.45
Q	2.70	2.90
R	2.30	2.70
S	1.29	1.35
U	6.45	6.65
V	8.66	8.86

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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=250μA	180			V
$V_{GS(th)}$	Gate Threshold Voltage	V_{DS}= V_{GS}; I_D=1mA	2.0		4.0	V
V_{SD}	Diode Forward On-voltage	I_S= 2A ;V_{GS}= 0			1.4	V
$R_{DS(on)}$	Drain-Source On-Resistance	V_{GS}= 10V; I_D= 1A			1.8	Ω
I_{GSS}	Gate-Body Leakage Current	V_{GS}= ±20V;V_{DS}= 0			±500	nA
I_{DSS}	Zero Gate Voltage Drain Current	V_{DS}=180V; V_{GS}= 0			10	μA
t_r	Rise Time	V_{GS}=10V; I_D=1.25A; V_{DD}=50V; R_L=50Ω			25	ns
$t_{d(on)}$	Turn-on Delay Time				15	
t_f	Fall Time				15	
$t_{d(off)}$	Turn-off Delay Time				15	

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