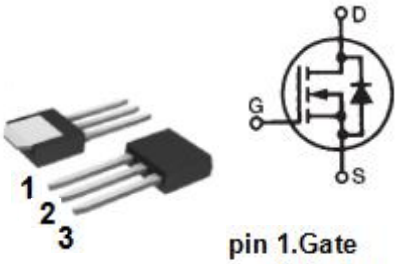
isc N-Channel MOSFET Transistor AOI482

FEATURES

- Drain Current –I_D=32A@ T_C=25℃
- Drain Source Voltage-
  : V_{DSS}=100V(Min)
- Static Drain-Source On-Resistance
  : $R_{DS(on)}$ = 37mΩ(Max)
- 100% avalanche tested
- Minimum Lot-to-Lot variations for robust device performance and reliable operation



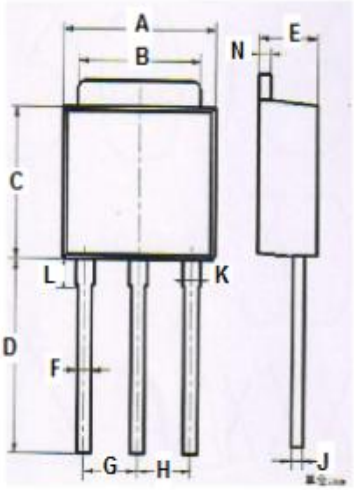
pin 1.Gate
2.Drain
3.Source

IPAK

TO-251 package

DESCRIPTION

- Designed for use in switch mode power supplies and general purpose applications.



DIM	mm MIN	MAX
A	6.40	6.48
B	5.10	5.50
C	5.80	6.20
D	9.20	9.60
E	2.20	2.40
F	0.50	0.70
G	2.09	2.49
H	2.09	2.49
J	0.40	0.60
K	0.70	0.90
L	1.60	2.00
N	0.40	0.60

ABSOLUTE MAXIMUM RATINGS(T_a=25℃)

SYMBOL	PARAMETER	VALUE	UNIT
V_{DSS}	Drain-Source Voltage	100	V
V_{GS}	Gate-Source Voltage-Continuous	±20	V
I_D	Drain Current-Continuous	32	A
I_{DM}	Drain Current-Single Pluse	70	A
P_D	Total Dissipation @T_C=25℃	100	W
T_J	Max. Operating Junction Temperature	-55~175	℃
T_{stg}	Storage Temperature	-55~175	℃

THERMAL CHARACTERISTICS

SYMBOL	PARAMETER	MAX	UNIT
$R_{th\ j\text{-}c}$	Thermal Resistance, Junction to Case	1.5	℃/W

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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	100		V
$V_{GS(th)}$	Gate Threshold Voltage	V_{DS}= 5V; I_D= 0.25mA	1.6	2.7	V
$R_{DS(on)}$	Drain-Source On-Resistance	V_{GS}= 10V; I_D=10A		37	mΩ
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 V_{DS}= 100V; V_{GS}= 0@T_J= 55℃		1 5	μA
V_{SD}	Forward On-Voltage	I_S= 1A; V_{GS}= 0		1	V