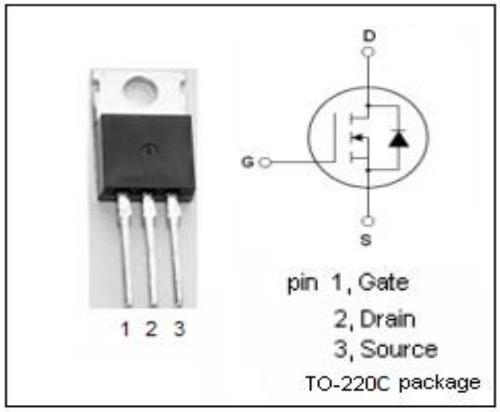
isc N-Channel MOSFET Transistor IPP034N03L，IIPP034N03L



• FEATURES

- Static drain-source on-resistance:
  $R_{DS(on)}$ ≤3.4mΩ
- Enhancement mode:
- Fast Switching Speed
- 100% avalanche tested
- Minimum Lot-to-Lot variations for robust device performance and reliable operation

• DESCRITION

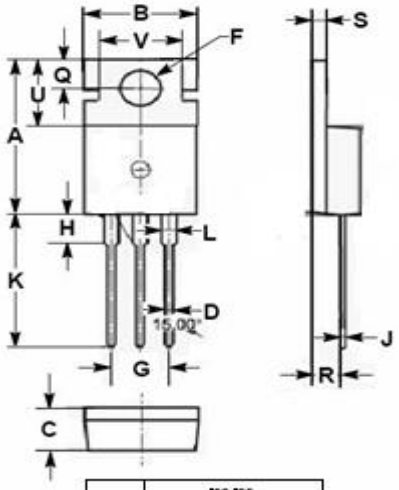
- reliable device for use in a wide variety of applications

• ABSOLUTE MAXIMUM RATINGS(T_a=25℃)

SYMBOL	PARAMETER	VALUE	UNIT
V_{DSS}	Drain-Source Voltage	30	V
V_{GS}	Gate-Source Voltage	±20	V
I_D	Drain Current-Continuous	80	A
I_{DM}	Drain Current-Single Pulsed	400	A
P_D	Total Dissipation @T_C=25℃	94	W
T_j	Max. Operating Junction Temperature	175	℃
T_{stg}	Storage Temperature	-55~175	℃

• THERMAL CHARACTERISTICS

SYMBOL	PARAMETER	MAX	UNIT
Rth(ch-c)	Channel-to-case thermal resistance	0.75	℃/W
Rth(ch-a)	Channel-to-ambient thermal resistance	62	℃/W



DIM	mm MIN	mm MAX
A	15.50	15.90
B	9.90	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	13.00	13.40
L	1.10	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	TYP	MAX	UNIT
BV_{DSS}	Drain-Source Breakdown Voltage	V_{GS}=0V; I_D=1mA	30			V
$V_{GS(th)}$	Gate Threshold Voltage	V_{DS}=V_{GS}; I_D=250 μA	1		2.2	V
$R_{DS(on)}$	Drain-Source On-Resistance	V_{GS}=10V; I_D=30A			3.4	mΩ
I_{GSS}	Gate-Source Leakage Current	V_{GS}= 20V，V_{DS}=0V			0.1	μA
I_{DSS}	Drain-Source Leakage Current	V_{DS}=30V; V_{GS}= 0V			1	μA
V_{SD}	Diode forward voltage	I_F =30A, V_{GS} = 0 V			1.1	V