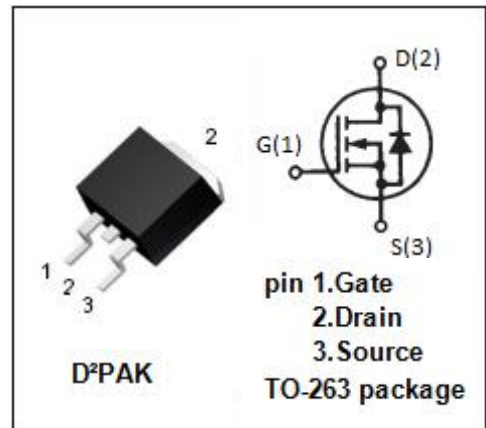


isc N-Channel MOSFET Transistor
PSMN3R4-30BLE
FEATURES

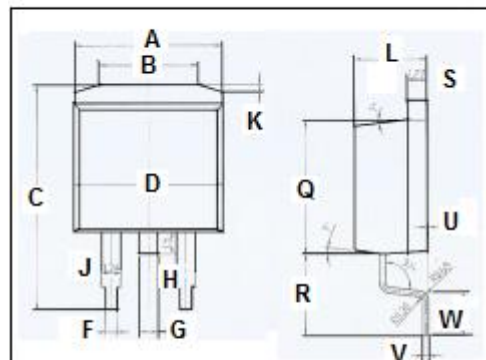
- Drain Current $-I_D = 120A @ T_C = 25^\circ C$
- Drain Source Voltage-
: $V_{DSS} = 30V(\text{Min})$
- Static Drain-Source On-Resistance
: $R_{DS(on)} = 3.4m\Omega (\text{Max})$
- 100% avalanche tested
- Minimum Lot-to-Lot variations for robust device performance and reliable operation

DESCRIPTION

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


ABSOLUTE MAXIMUM RATINGS($T_a = 25^\circ C$)

SYMBOL	PARAMETER	VALUE	UNIT
V_{DSS}	Drain-Source Voltage	30	V
V_{GS}	Gate-Source Voltage-Continuous	± 20	V
I_D	Drain Current-Continuous	120	A
I_{DM}	Drain Current-Single Pulse	672	A
P_D	Total Dissipation @ $T_C = 25^\circ C$	178	W
T_J	Max. Operating Junction Temperature	-55~175	$^\circ C$
T_{stg}	Storage Temperature	-55~175	$^\circ C$



DIM	mm	
	MIN	MAX
A	10	
B	6.6	6.8
C	15.23	15.25
D	10.15	10.17
F	0.76	0.78
G	1.26	1.28
H	1.4	1.6
J	1.33	1.35
K	0.4	0.6
L	4.6	4.8
Q	8.69	8.71
R	5.28	5.30
S	1.26	1.28
U	0.0	0.2
V	0.37	0.39
W	2.80	2.82

THERMAL CHARACTERISTICS

SYMBOL	PARAMETER	MAX	UNIT
$R_{th\ j-c}$	Thermal Resistance, Junction to Case	0.84	$^\circ C/W$

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ELECTRICAL CHARACTERISTICS

T_C=25°C unless otherwise specified

SYMBOL	PARAMETER	CONDITIONS	MIN	MAX	UNIT
V _{(BR)DSS}	Drain-Source Breakdown Voltage	V _{GS} = 0; I _D = 0.25mA	80		V
V _{GS(th)}	Gate Threshold Voltage	V _{DS} = V _{GS} ; I _D = 1mA	1.3	2.15	V
R _{DS(on)}	Drain-Source On-Resistance	V _{GS} = 10V; I _D = 25A		3.4	mΩ
I _{GSS}	Gate-Body Leakage Current	V _{GS} = ±16V; V _{DS} = 0		±100	nA
I _{DSS}	Zero Gate Voltage Drain Current	V _{DS} = 30V; V _{GS} = 0		5.0	μA
V _{SD}	Forward On-Voltage	I _S = 25A; V _{GS} = 0		1.2	V

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