

isc N-Channel MOSFET Transistor

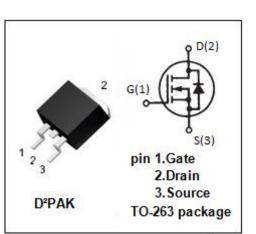
DMTH6004SCTB

FEATURES

- Drain Current –I_D= 100A@ T_C=25 $^\circ\!\!\mathrm{C}$
- Drain Source Voltage-
 - : V_{DSS}= 60V(Min)
- Static Drain-Source On-Resistance
- : R_{DS(on)} = 3.4m Ω (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.

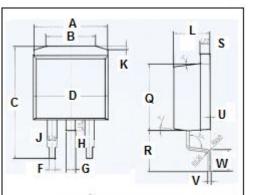


ABSOLUTE MAXIMUM RATINGS(T_a=25°C)

SYMBOL	PARAMETER	VALUE	UNIT
V _{DSS}	Drain-Source Voltage	60	V
V _{GS}	Gate-Source Voltage-Continuous	±20	V
ID	Drain Current-Continuous	100	А
I _{DM}	Drain Current-Single Pluse	200	А
P _D	Total Dissipation @T _c =25℃	136	w
TJ	Max. Operating Junction Temperature -55~1		°C
T _{stg}	Storage Temperature	-55~150	°C

THERMAL CHARACTERISTICS

SYMBOL	PARAMETER	MAX	UNIT
R _{th j-c}	Thermal Resistance, Junction to Case	1.1	°C/W



	m	m
MIC	MIN	MAX
A	10	
В	6.6	6.8
C	15.23	15.25
D	10.15	10.17
F	0.76	0.78
G	1.26	1.28
н	1.4	1.6
J	1.33	1.35
K	0.4	0.6
L	4.6	4.8
0	8.69	8.71
R	5.28	5.30
S	1.26	1.28
U	0.0	0.2
٧	0.37	0.39
W	2.80	2.82



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ELECTRICAL CHARACTERISTICS

$T_{\text{C}}\text{=}25\,^{\circ}\!\!\!\!\!\!\mathrm{C}$ unless otherwise specified

SYMBOL	PARAMETER	CONDITIONS	MIN	МАХ	UNIT
V _{(BR)DSS}	Drain-Source Breakdown Voltage	V _{GS} = 0; I _D = 0.25mA	60		V
V _{GS(th)}	Gate Threshold Voltage	V _{DS} = V _{GS} ; I _D = 0.25mA	2.0	4.0	V
R _{DS(on)}	Drain-Source On-Resistance	V _{GS} = 10V; I _D = 100A		3.4	mΩ
lgss	Gate-Body Leakage Current	V _{GS} = ±20V;V _{DS} = 0		±100	nA
IDSS	Zero Gate Voltage Drain Current	V _{DS} = 48V; V _{GS} = 0		1	μA
V _{SD}	Forward On-Voltage	I _S = 100A; V _{GS} = 0		1.3	V

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