

INCHANGE SEMICONDUCTOR

isc N-Channel MOSFET Transistor

APT75M50L

FEATURES

- Drain Current –I_D= 75A@ T_C=25 $^\circ\!\mathrm{C}$
- Drain Source Voltage-: V_{DSS}=500V(Min)
- Static Drain-Source On-Resistance : R_{DS(on)} =0.075 Ω (Max)
- 100% avalanche tested
- Minimum Lot-to-Lot variations for robust device performance and reliable operation

DESCRIPTION

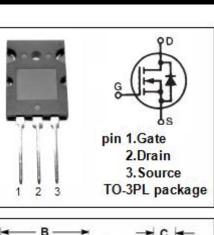
• Designed for use in switch mode power supplies and general purpose applications.

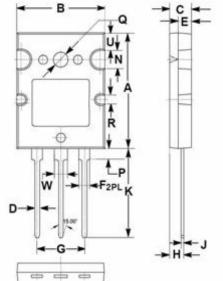
SYMBOL	PARAMETER	VALUE	UNIT		
V _{DSS}	Drain-Source Voltage	500	V		
V _{GS}	Gate-Source Voltage-Continuous	±30	V		
ID	Drain Current-Continuous	75	A		
I _{DM}	Drain Current-Single Pluse	230	A		
PD	Total Dissipation @Tc=25℃	1040	W		
TJ	Max. Operating Junction Temperature	-55~150	°C		
T _{stg}	Storage Temperature	-55~150	°C		

ABSOLUTE MAXIMUM RATINGS(Ta=25°C)

THERMAL CHARACTERISTICS

SYMBOL	PARAMETER	MAX	UNIT
R _{th j-c}	Thermal Resistance, Junction to Case	0.12	°C/W





i i	mm	
DIM	MIN	MAX
A	25.50	26.50
В	19.80	20.20
C	4.50	5.50
D	0.90	1.10
E	2.80	3.20
F	2.40	2.60
G	10.80	11.00
Н	3.10	3.30
J	0.50	0.70
Κ	20.00	21.00
N	3.90	4.50
P	2.40	2.60
Q	3.10	3.50
R	1.90	2.60
U	3.90	4.10
W	2.90	3.25



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ELECTRICAL CHARACTERISTICS

T_J=25℃ unless otherwise specified

SYMBOL	PARAMETER	CONDITIONS	MIN	МАХ	UNIT
V _{(BR)DSS}	Drain-Source Breakdown Voltage	V _{GS} = 0; I _D = 0.25mA	500		V
$V_{GS(th)}$	Gate Threshold Voltage	V_{DS} = V_{GS} ; I_D = 2.5mA	2.5	5	V
R _{DS(on)}	Drain-Source On-Resistance	V _{GS} = 10V; I _D =37A		0.075	Ω
lgss	Gate-Body Leakage Current	V _{GS} = ±30V;V _{DS} = 0		±100	nA
I _{DSS}	Zero Gate Voltage Drain Current	V_{DS} = 500V; V_{GS} = 0 V_{DS} = 500V; V_{GS} = 0@Tj=125°C		250 1000	μA
V _{SD}	Forward On-Voltage	I _S =-37A; V _{GS} = 0		1.0	V

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