

isc N-Channel MOSFET Transistor

APT6025BFLL

FEATURES

- Drain Current –I_D=24A@ T_C=25 $^\circ\!\mathrm{C}$
- Drain Source Voltage-: V_{DSS}=600V(Min)
- Static Drain-Source On-Resistance : R_{DS(on)} =0.25 Ω (Max)
- 100% avalanche tested
- Minimum Lot-to-Lot variations for robust device performance and reliable operation

DESCRIPTION

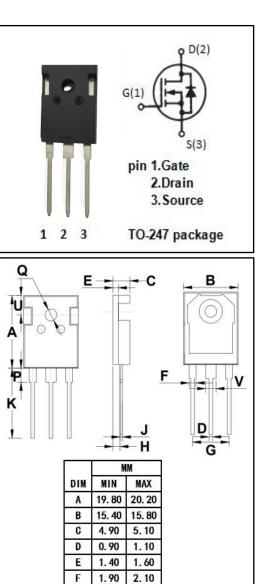
 Designed for use in switch mode power supplies and general purpose applications.

ABSOLUTE MAXIMUM RATINGS(Ta=25 C)						
SYMBOL	PARAMETER VALUE		UNIT			
V _{DSS}	Drain-Source Voltage	600	V			
V _{GS}	Gate-Source Voltage-Continuous ±		V			
ID	Drain Current-Continuous 24		A			
I _{DM}	Drain Current-Single Pluse 96		А			
PD	Total Dissipation @Tc=25℃	Tc=25℃ 325				
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	0.38	°C/W



10.80

2.40

0.50

19.50

3.90

3.30

5.20

2.90

11.00

2.60

0.70

20.50

4.10

3.50

5.40

3.10

G

H

J

K

Q

U

V



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ELECTRICAL CHARACTERISTICS

$T_c=25^{\circ}C$ unless otherwise specified

SYMBOL	PARAMETER	CONDITIONS	MIN	МАХ	UNIT
V _{(BR)DSS}	Drain-Source Breakdown Voltage	V _{GS} = 0; I _D = 0.25mA	600		V
V _{GS(th)}	Gate Threshold Voltage	V _{DS} = V _{GS} ; I _D = 1mA	3	5	V
R _{DS(on)}	Drain-Source On-Resistance	V _{GS} = 10V; I _D =12A		0.25	Ω
lgss	Gate-Body Leakage Current	V _{GS} = ±30V;V _{DS} = 0		±100	nA
I _{DSS}	Zero Gate Voltage Drain Current	V_{DS} = 600V; V_{GS} = 0 V_{DS} = 480V; V_{GS} = 0@T _J =125°C		250 1000	μA
V _{SD}	Forward On-Voltage	I _S =24A; V _{GS} = 0		1.3	V

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