

isc N-Channel MOSFET Transistor

APT5017BVFR

FEATURES

- Drain Current –I_D=30A@ T_C=25 $^\circ\!\mathrm{C}$
- Drain Source Voltage-: V_{DSS}=500V(Min)
- Static Drain-Source On-Resistance : R_{DS(on)} =0.17 Ω (Max)
- 100% avalanche tested
- Minimum Lot-to-Lot variations for robust device performance and reliable operation

DESCRIPTION

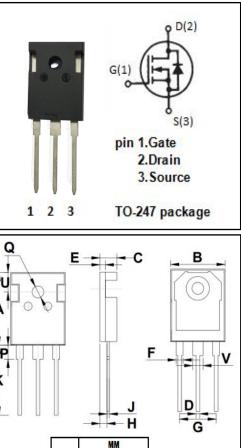
 Designed for use in switch mode power supplies and general purpose applications.

ABSOLUTE MAXIMUM RATINGS(Ta=25 C)					
SYMBOL	PARAMETER VALUE		UNIT		
V _{DSS}	Drain-Source Voltage	500	V		
V _{GS}	Gate-Source Voltage-Continuous	±30	V		
ID	Drain Current-Continuous	30	A		
I _{DM}	Drain Current-Single Pluse	120	А		
PD	Total Dissipation @Tc=25℃	370	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	0.34	°C/W



	MM	
DIM	MIN	MAX
A	19.80	20.20
В	15.40	15.80
C	4.90	5.10
D	0.90	1.10
Ε	1.40	1.60
F	1.90	2.10
G	10.80	11.00
Η	2.40	2.60
J	0.50	0.70
K	19.50	20.50
Р	3.90	4.10
Q	3.30	3.50
U	5.20	5.40
٧	2.90	3.10



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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	500		V
V _{GS(th)}	Gate Threshold Voltage	V _{DS} = V _{GS} ; I _D = 1mA	2	4	V
R _{DS(on)}	Drain-Source On-Resistance	V _{GS} = 10V; I _D =15A		0.16	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} = 400V; V_{GS} = 0@T _J =125°C		250 1000	μA
V _{SD}	Forward On-Voltage	I _S =30A; V _{GS} = 0		1.3	V

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