

INCHANGE SEMICONDUCTOR

isc N-Channel MOSFET Transistor

APT5017BVR

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

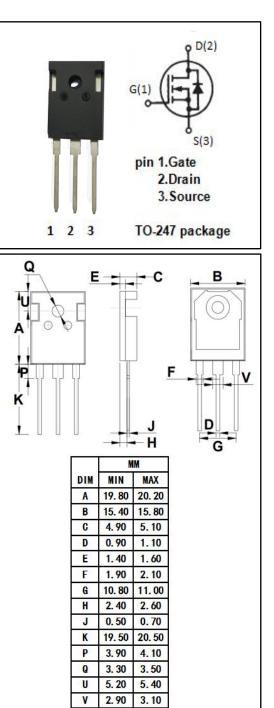
Designed for use in switch mode power supplies and general purpose applications.



SYMBOL	PARAMETER	VALUE	UNIT
V _{DSS}	Drain-Source Voltage	500	V
V _{GS}	Gate-Source Voltage-Continuous	±30	V
I _D	Drain Current-Continuous		A
I _{DM}	Drain Current-Single Pluse	120	A
PD	Total Dissipation @Tc=25°C 370		W
TJ	Max. Operating Junction Temperature	-55~150	°C
T _{stg}	Storage Temperature -55~150		°C

THERMAL CHARACTERISTICS

SYMBOL	PARAMETER	MAX	UNIT
Rth j-c	Thermal Resistance, Junction to Case	0.34	°C/W





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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		0.17	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		25 250	μA
V _{SD}	Forward On-Voltage	I _S =-30A; V _{GS} = 0		1.3	V

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