

isc N-Channel MOSFET Transistor

APT5028BVR

FEATURES

- Drain Current -I_D=20A@ T_C=25°C
- · Drain Source Voltage-
 - : V_{DSS}=500V(Min)
- · Static Drain-Source On-Resistance
 - : $R_{DS(on)} = 0.28 \Omega (Max)$
- · 100% avalanche tested
- Minimum Lot-to-Lot variations for robust device performance and reliable operation



DESCRIPTION

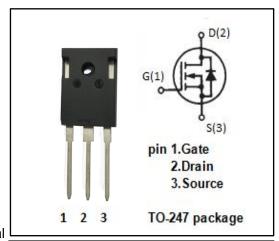
 Designed for use in switch mode power supplies and general purpose applications.

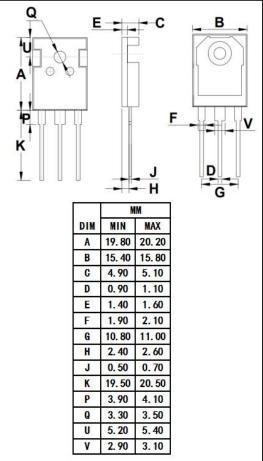


SYMBOL	PARAMETER	VALUE	UNIT
V _{DSS}	Drain-Source Voltage	500	V
V _{GS}	Gate-Source Voltage-Continuous	±30	V
I _D	Drain Current-Continuous	20	А
I _{DM}	Drain Current-Single Pluse	80	А
P _D	Total Dissipation @T _C =25℃	250	W
TJ	Max. Operating Junction Temperature	-55~150	°C
T _{stg}	Storage Temperature	-55~150	°C

THERMAL CHARACTERISTICS

SYMBOL	PARAMETER	MAX	UNIT
R _{th j-c}	Thermal Resistance, Junction to Case	0.50	°C/W







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ELECTRICAL CHARACTERISTICS

T_C=25℃ unless otherwise specified

SYMBOL	PARAMETER	CONDITIONS	MIN	MAX	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 =10A		0.28	Ω
Igss	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 _C =125°C		25 250	μА
V _{SD}	Forward On-Voltage	I _S =-20A; V _{GS} = 0		1.3	V

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