

isc N-Channel MOSFET Transistor

APT30M85BVR

FEATURES

- Drain Current –I_D=40A@ T_C=25 °C
- · Drain Source Voltage-
 - : V_{DSS}=300V(Min)
- Static Drain-Source On-Resistance
 - : $R_{DS(on)} = 0.085 \Omega (Max)$
- · 100% avalanche tested
- Minimum Lot-to-Lot variations for robust device performance and reliable operation



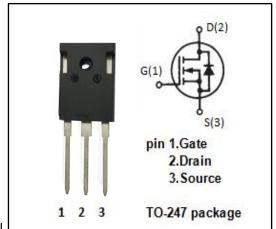
 Designed for use in switch mode power supplies and general purpose applications.

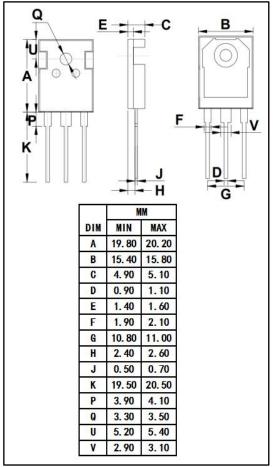
ABSOLUTE MAXIMUM RATINGS(Ta=25°C)

SYMBOL	PARAMETER	VALUE	UNIT
V_{DSS}	Drain-Source Voltage	300	
V _{GS}	Gate-Source Voltage-Continuous	±30	V
ΙD	Drain Current-Continuous 40		А
I _{DM}	Drain Current-Single Pluse 160		А
P _D	Total Dissipation @T _C =25℃	300	W
TJ	Max. Operating Junction Temperature	-55~150	$^{\circ}$
T _{stg}	Storage Temperature	-55~150	$^{\circ}$ C

THERMAL CHARACTERISTICS

SYMBOL	PARAMETER	MAX	UNIT
R _{th j-c}	Thermal Resistance, Junction to Case	0.42	°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	300		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 =20A		0.085	Ω
Igss	Gate-Body Leakage Current	V _{GS} = ±30V;V _{DS} = 0		±100	nA
I _{DSS}	Zero Gate Voltage Drain Current	V _{DS} = 300V; V _{GS} = 0 V _{DS} = 240V; V _{GS} = 0@T _J =125℃		25 250	μА
V _{SD}	Forward On-Voltage	I _S =40A; V _{GS} = 0		1.3	V

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