

isc N-Channel MOSFET Transistor

APT20M22LVFR

FEATURES

- Drain Current –I_D= 100A@ T_C=25 °C
- Drain Source Voltage-
 - : V_{DSS}=200V(Min)
- Static Drain-Source On-Resistance
 - : $R_{DS(on)} = 0.022 \Omega (Max)$
- 100% avalanche tested
- Minimum Lot-to-Lot variations for robust device performance and reliable operation

DESCRIPTION

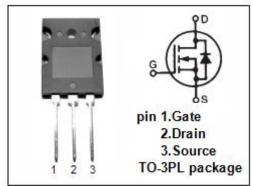
 Designed for use in switch mode power supplies and genera purpose applications.

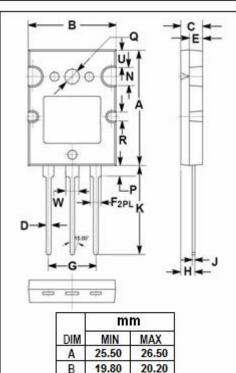
ABSOLUTE MAXIMUM RATINGS(Ta=25°C)

SYMBOL	PARAMETER	VALUE	UNIT
V _{DSS}	Drain-Source Voltage	200	V
V _{GS}	Gate-Source Voltage-Continuous	±30	V
ID	Drain Current-Continuous	100	Α
I _{DM}	Drain Current-Single Pluse	400	Α
P _D	Total Dissipation @T _C =25℃	520	W
TJ	Max. Operating Junction Temperature	-55~150	$^{\circ}$
T _{stg}	Storage Temperature -55~150		$^{\circ}$

THERMAL CHARACTERISTICS

SYMBOL	PARAMETER	MAX	UNIT
R _{th j-c}	Thermal Resistance, Junction to Case	0.24	°C/W





	mm	
DIM	MIN	MAX
Α	25.50	26.50
В	19.80	20.20
C	4.50	5.50
D	0.90	1.10
E	2.80	3.20
F	2.40	2.60
G	10.80	11.00
Н	3.10	3.30
J	0.50	0.70
K	20.00	21.00
N	3.90	4.50
Р	2.40	2.60
Q	3.10	3.50
R	1.90	2.60
U	3.90	4.10
W	2.90	3.25



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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	200		V
V _{GS(th)}	Gate Threshold Voltage	V_{DS} = V_{GS} ; I_D = 2.5mA	2	4	V
R _{DS(on)}	Drain-Source On-Resistance	V _{GS} = 10V; I _D =50A		0.022	Ω
lgss	Gate-Body Leakage Current	V _{GS} = ±30V;V _{DS} = 0		±100	nA
I _{DSS}	Zero Gate Voltage Drain Current	V _{DS} = 200V; V _{GS} = 0 V _{DS} = 160V; V _{GS} = 0@T _C =125°C		250 1000	μА
V _{SD}	Forward On-Voltage	I _S =-100A; V _{GS} = 0		1.3	V

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