

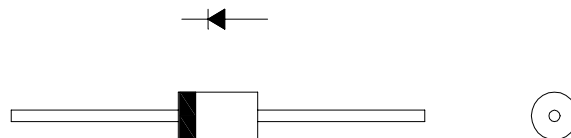
DIODE Type : 30PDA20

3A 200V Tj =150 °C

OUTLINE DRAWING

FEATURES

- * Low Forward Voltage drop
- * Low Reverse Leakage Current
- * High Surge Capability



Maximum Ratings

Approx Net Weight:1.24g

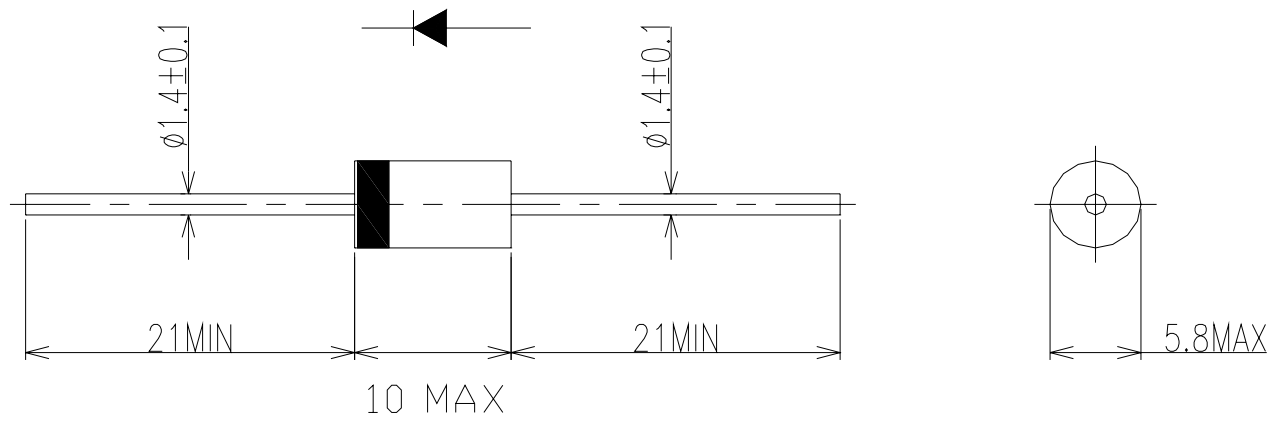
Rating	Symbol	30PDA20			Unit	
Repetitive Peak Reverse Voltage	V _{RRM}	200			V	
Average Rectified Output Current	I _O	50Hz Half Sine Wave Resistive Load	Ta=31°C *1	1.6	A	
			Tl=124°C (Tl: Lead Temperature)	3.0		
RMS Forward Current	I _{F(RMS)}				4.71	A
Surge Forward Current	I _{FSM}	50Hz Half Sine Wave,1cycle, Non-repetitive			100	A
Operating JunctionTemperature Range	T _{jw}	- 40 to + 150				°C
Storage Temperature Range	T _{stg}	- 40 to + 150				°C

Electrical • Thermal Characteristics

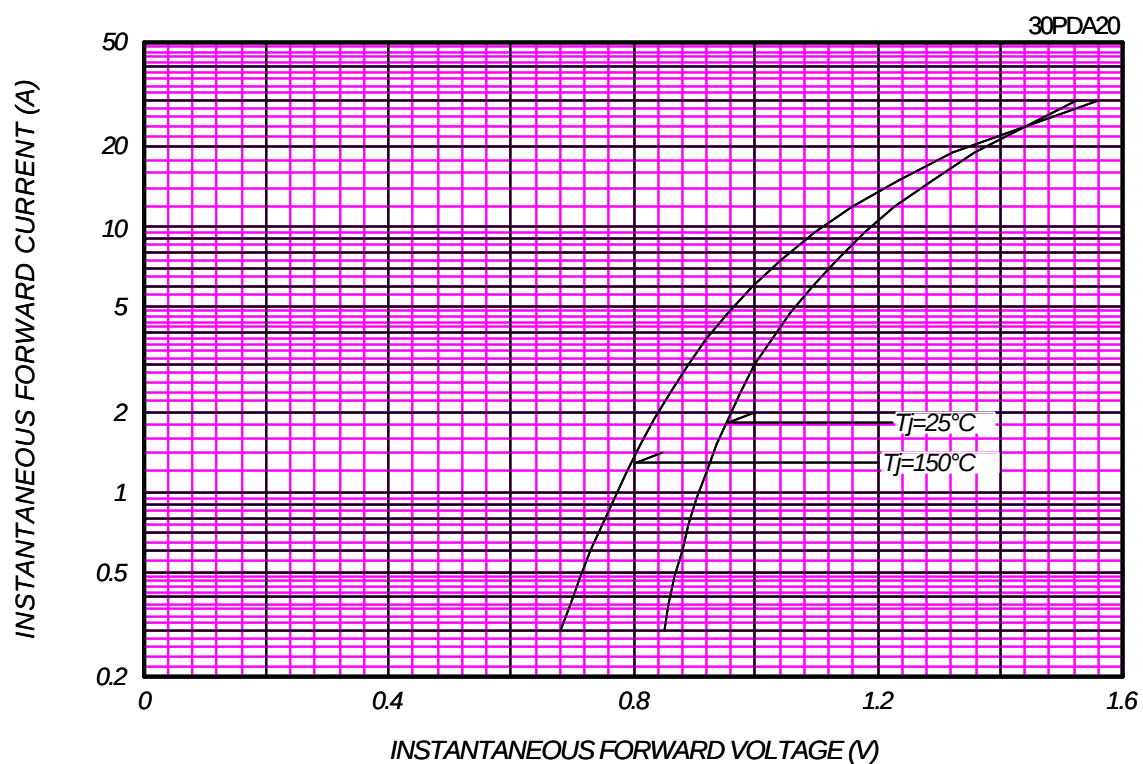
Characteristics	Symbol	Conditions	Min.	Typ.	Max.	Unit
Peak Reverse Current	I_{RM}	$T_j= 25^{\circ}\text{C}$, $V_{RM}= V_{RRM}$	-	-	10	μA
Peak Forward Voltage	V_{FM}	$T_j= 25^{\circ}\text{C}$, $I_{FM}= 3.0\text{A}$	-	-	1.0	V
Thermal Resistance	$R_{th(j-a)}$	Junction to Ambient *1	-	-	80	°C/W
	$R_{th(j-l)}$	Junction to Lead	-	-	8	

*1: Without Fin or P.C. Board mounted

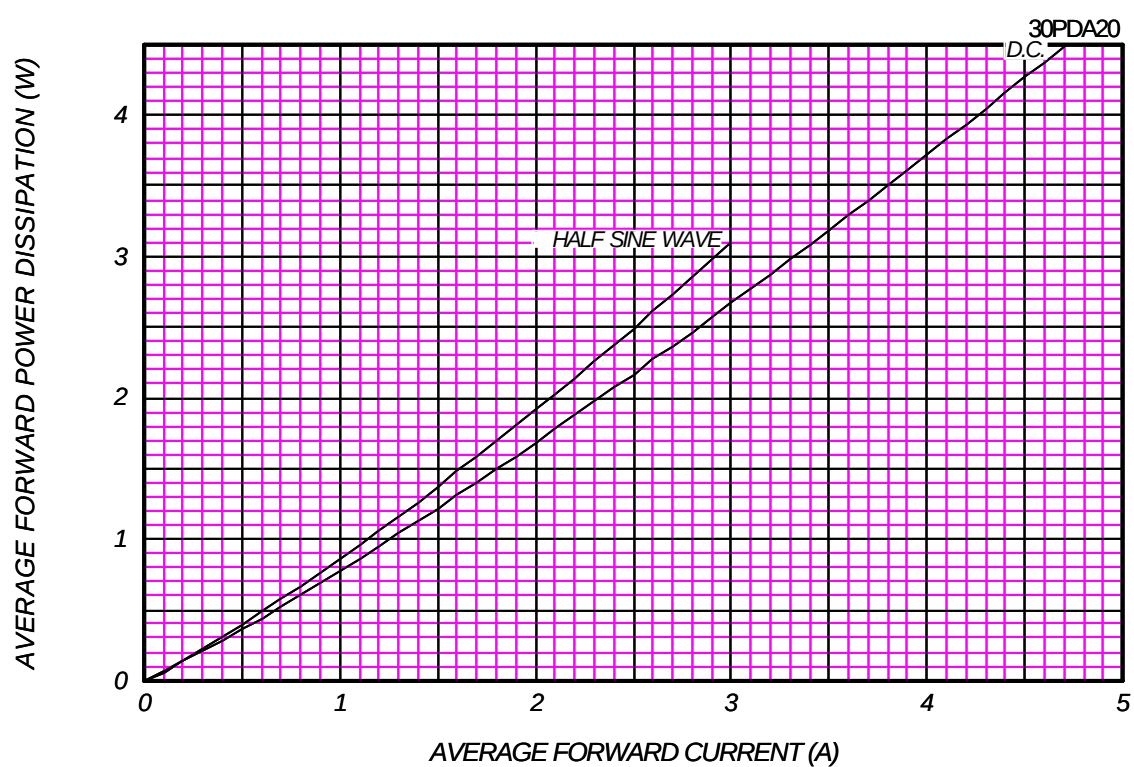
30PDA OUTLINE DRAWING (Dimensions in mm)



FORWARD CURRENT VS. VOLTAGE



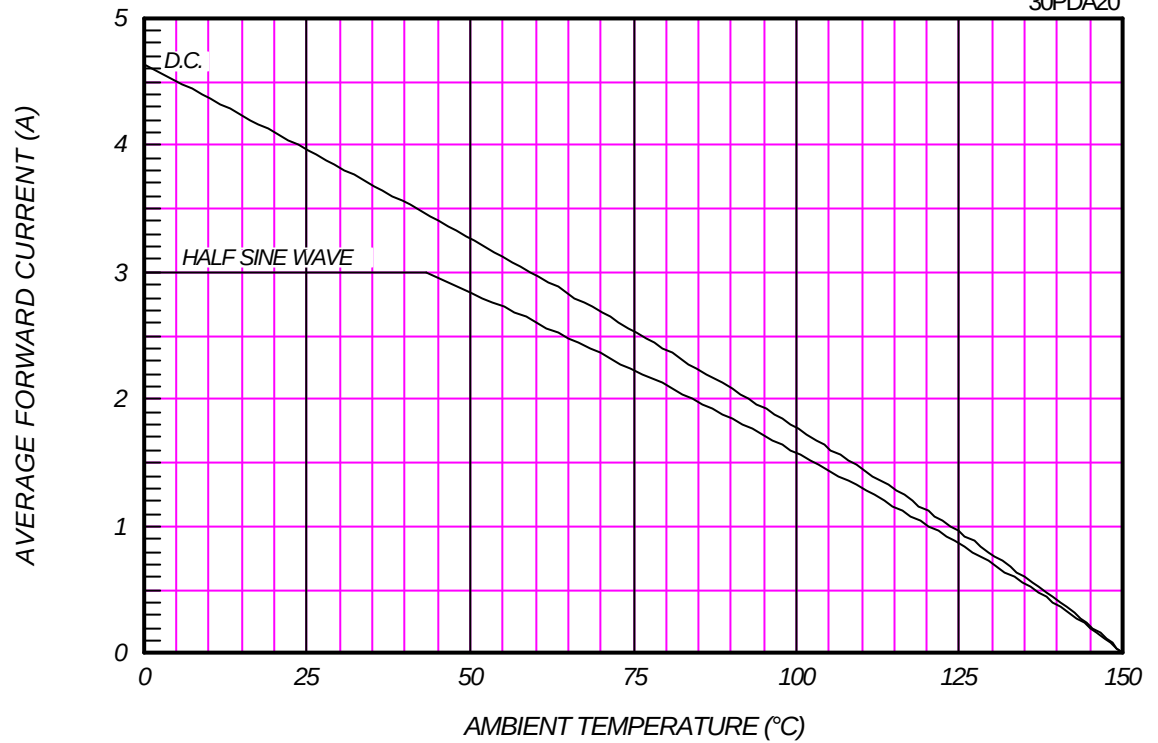
AVERAGE FORWARD POWER DISSIPATION



AVERAGE FORWARD CURRENT VS. AMBIENT TEMPERATURE

With Cu Fin (L=3mm,Print Land=5×5mm,Both Sides)

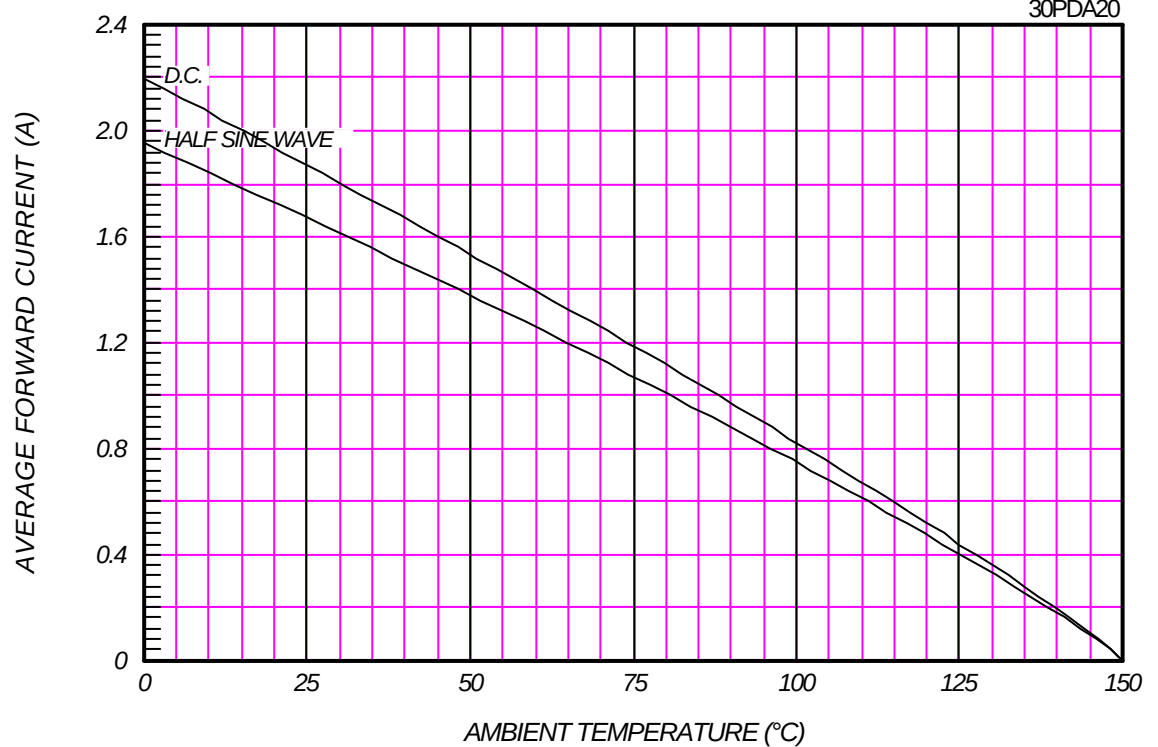
30PDA20



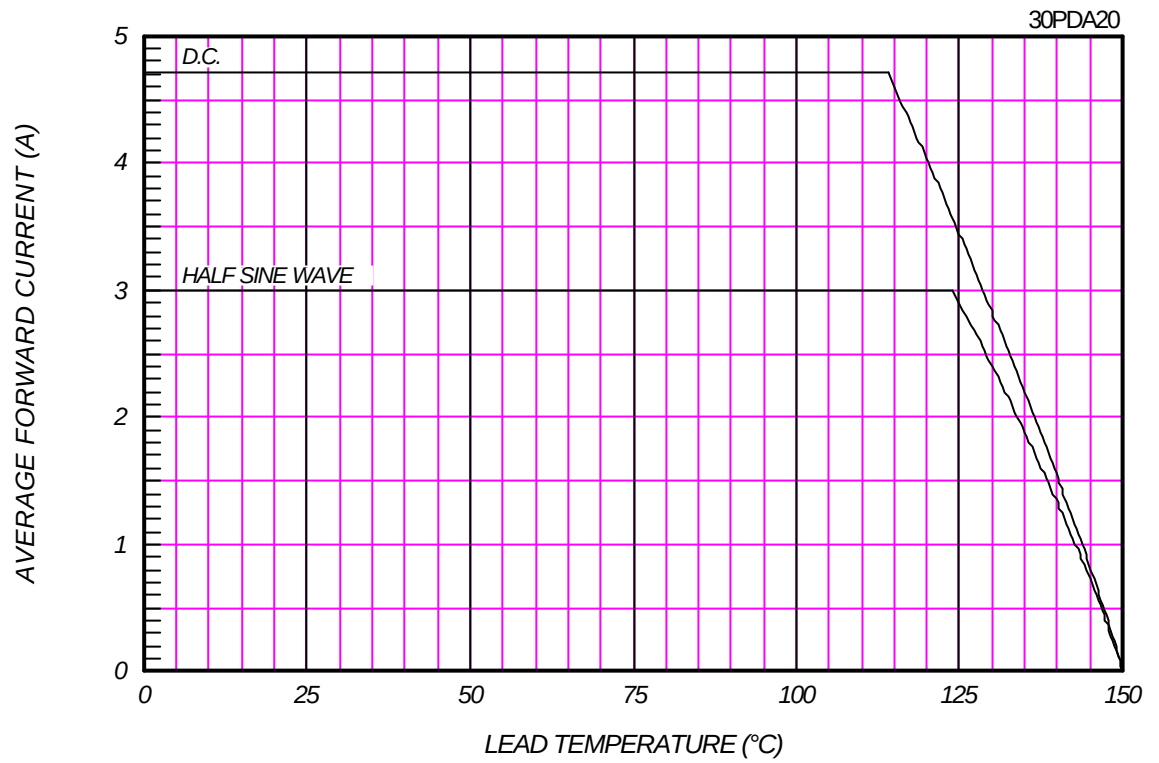
AVERAGE FORWARD CURRENT VS. AMBIENT TEMPERATURE

Without Fin or P.C. Board

30PDA20



AVERAGE FORWARD CURRENT VS. LEAD TEMPERATURE



SURGE CURRENT RATINGS

f=50Hz, Half Sine Wave, Non-Repetitive, No Load

