

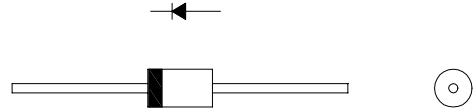
3A 200V 90ns

FRD Type: 30PRA20

OUTLINE DRAWING

FEATURES

- * Super Fast Recovery
- * Low Forward Voltage Drop
- * Low Power Loss, High Efficiency
- * High Surge Capability
- * 100 Volts thru 600 Volts Types Available



Maximum Ratings

Apporox Net Weight:1.19g

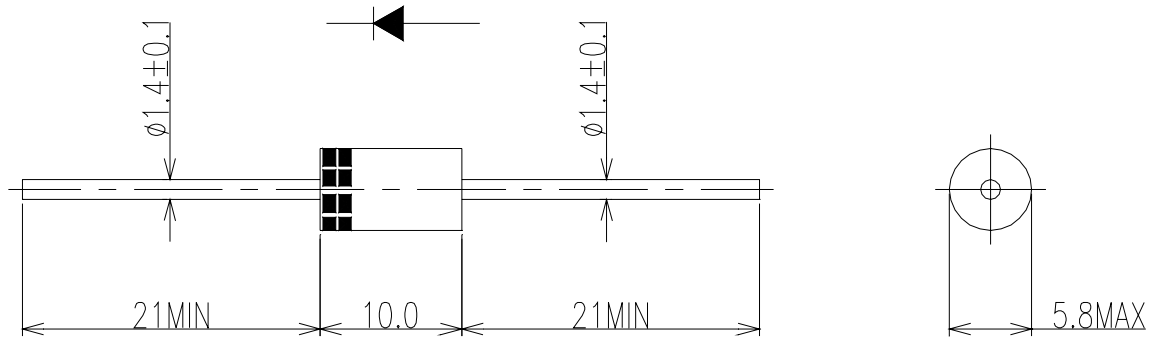
Rating	Symbol	30PRA20			Unit
Repetitive Peak Reverse Voltage	V _{RRM}	200			V
Average Rectified Output Current	I _O	3.0	Tl=124°C (Tl:Lead Temperature)	50Hz Half Sine Wave Resistive Load	A
		1.6	Ta=34°C *1		
RMS Forward Current	I _{F(RMS)}	4.71			A
Surge Forward Current	I _{FSM}	100	50Hz Half Sine Wave,1cycle, Non-repetitive		A
Operating JunctionTemperature Range	T _{jw}	- 40 to + 150			°C
Storage Temperature Range	T _{stg}	- 40 to + 150			°C

Electrical/Thermal • Characteristics

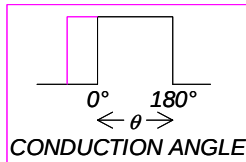
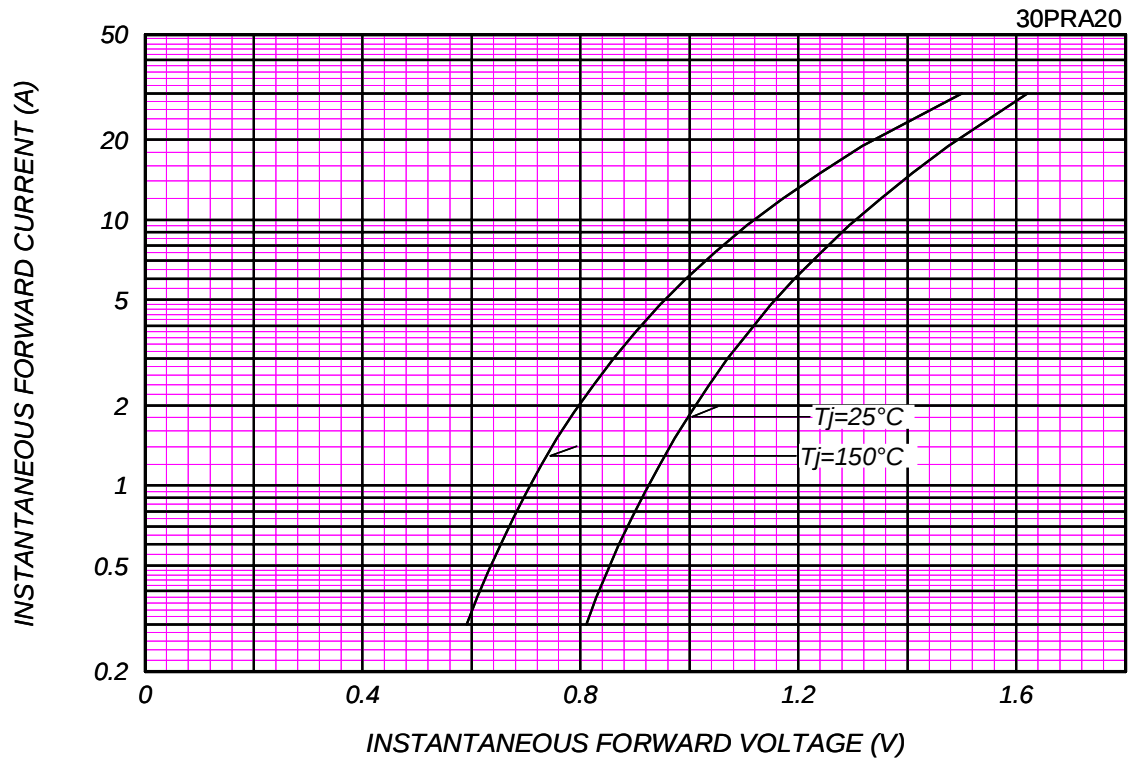
Characteristics	Symbol	Conditions	Min.	Typ.	Max.	Unit
Peak Reverse Current	I_{RM}	$T_j= 25^{\circ}\text{C}$, $V_{RM}= V_{RRM}$	-	-	10	μA
Peak Forward Voltage	V_{FM}	$T_j= 25^{\circ}\text{C}$, $I_{FM}= 3\text{ A}$	-	-	1.07	V
Reverse Recovery Time	t_{rr}	$T_a= 25^{\circ}\text{C}$, $I_{FM}=1\text{A}$, $-di/dt=50\text{A}/\mu\text{s}$			90	ns
Thermal Resistance	$R_{th(j-l)}$	Junction to Lead	-	-	8	$^{\circ}\text{C}/\text{W}$
	$R_{th(j-a)}$	Junction to Ambient *1			80	

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

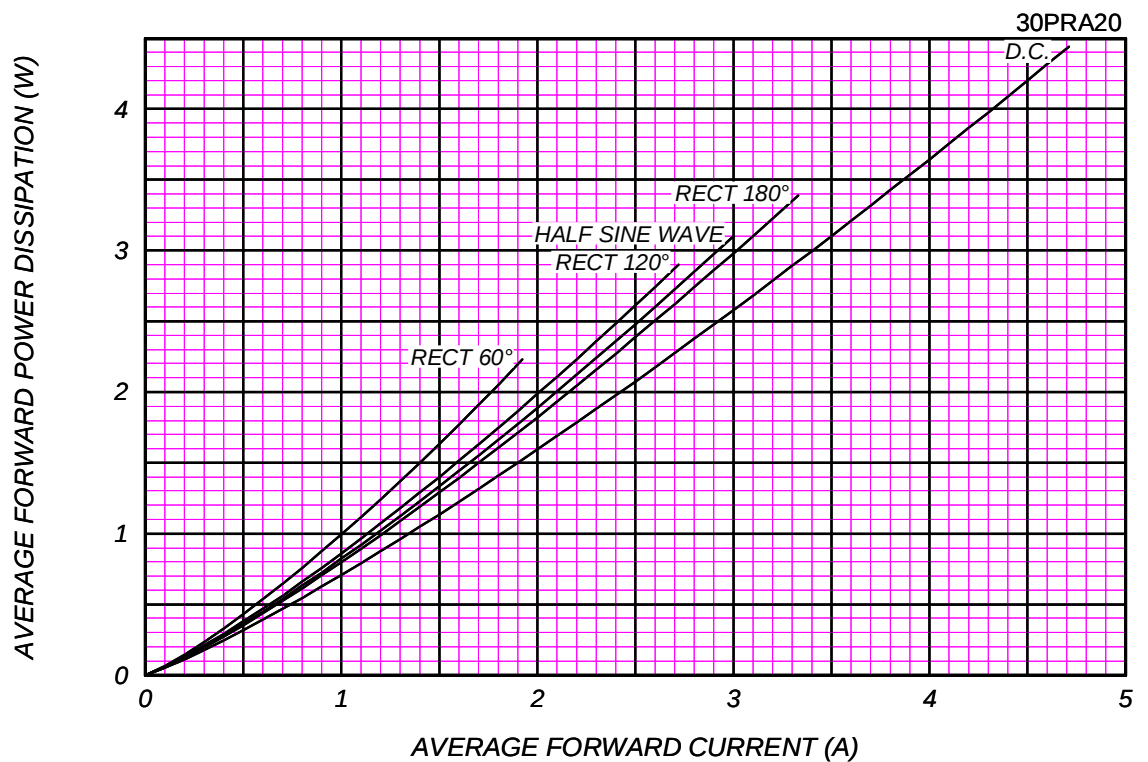
30PRA_ OUTLINE DRAWING (Dimensions in mm)

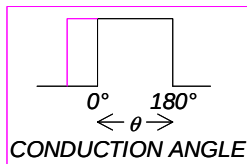


FORWARD CURRENT VS. VOLTAGE

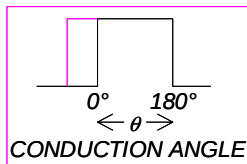
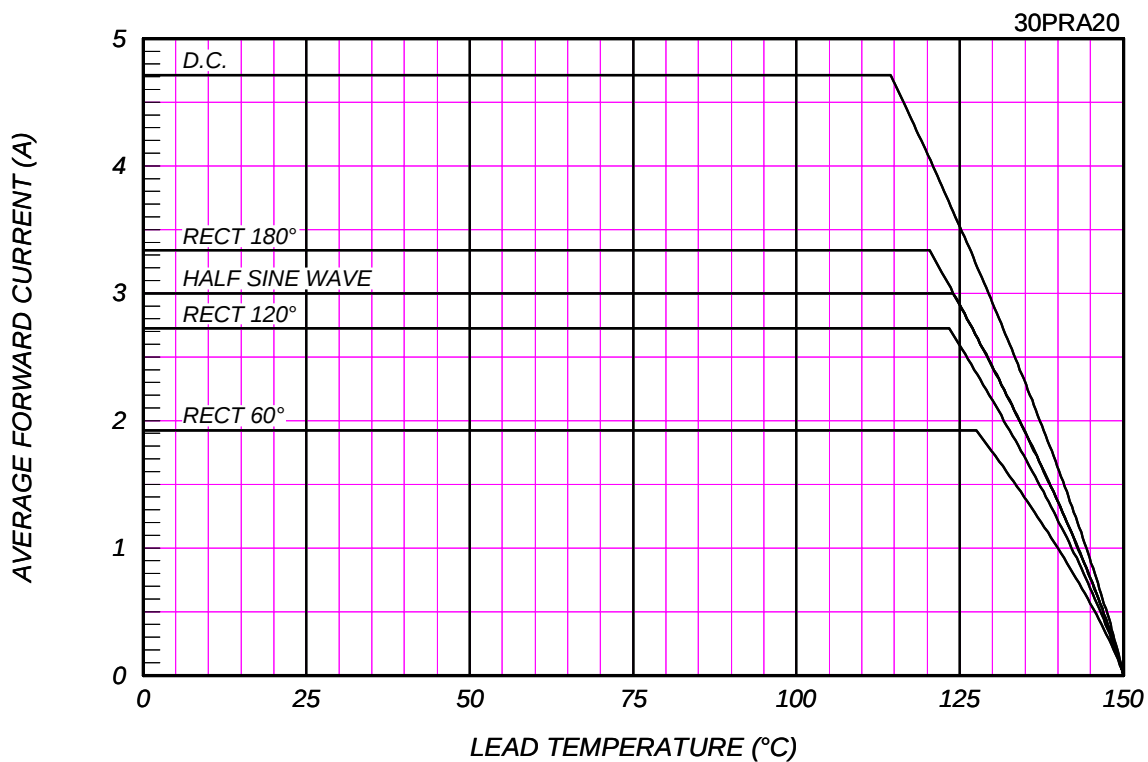


AVERAGE FORWARD POWER DISSIPATION



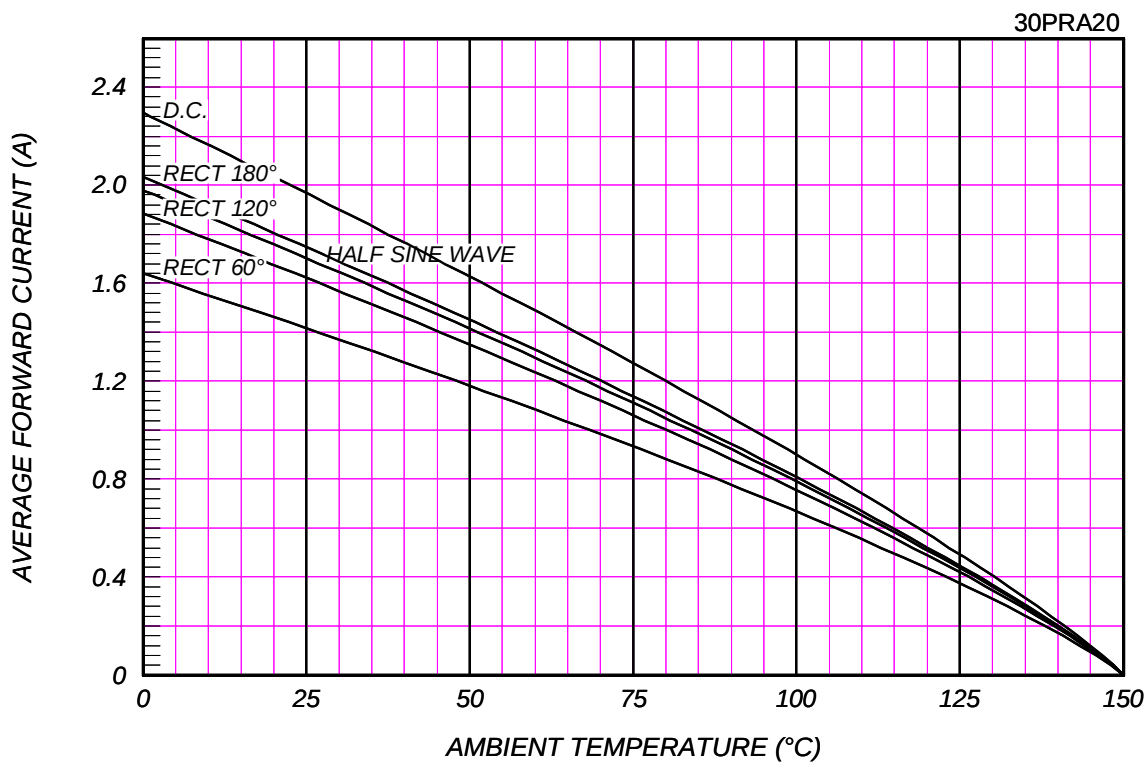


AVERAGE FORWARD CURRENT VS. LEAD TEMPERATURE



AVERAGE FORWARD CURRENT VS. AMBIENT TEMPERATURE

Without Fin or P.C. Board



SURGE CURRENT RATINGS

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

30PRA20

