

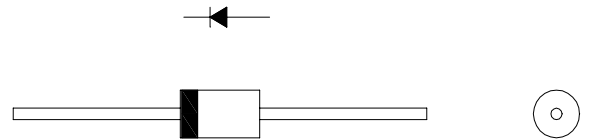
DIODE Type : 30PDA40

3A 400V Tj =150 °C

OUTLINE DRAWING

FEATURES

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



Maximum Ratings

Approx Net Weight:1.24g

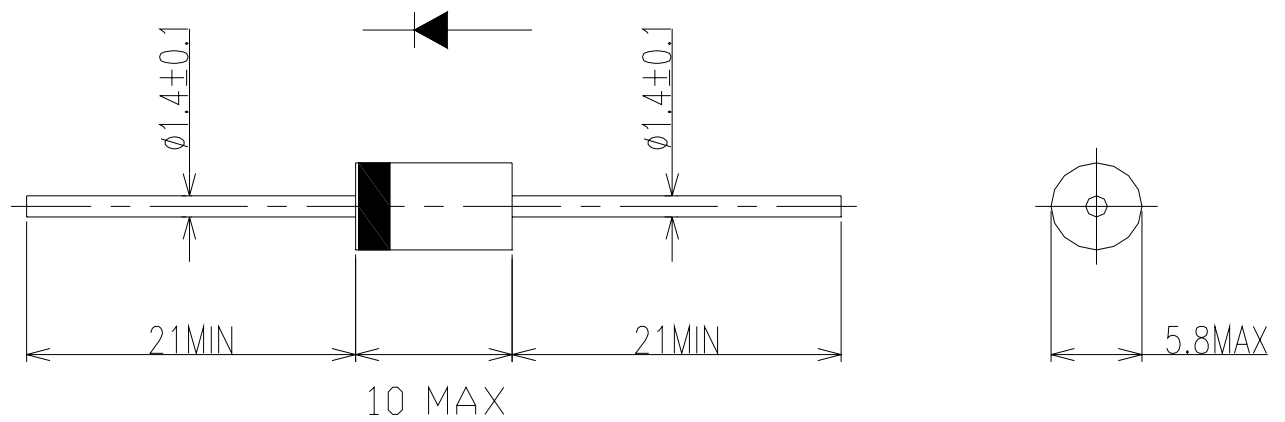
Rating	Symbol	30PDA40			Unit	
Repetitive Peak Reverse Voltage	V _{RRM}	400			V	
Average Rectified Output Current	I _O	50Hz Half Sine Wave Resistive Load	Ta=31℃ *1	1.6	A	
			Tl=124℃ (Tl: Lead Temperature)	3.0		
RMS Forward Current	I _{F(RMS)}				4.71	A
Surge Forward Current	I _{FSM}	50Hz Half Sine Wave,1cycle, Non-repetitive			100	A
Operating JunctionTemperature Range	T _{jw}	- 40 to + 150				℃
Storage Temperature Range	T _{stg}	- 40 to + 150				℃

Electrical • Thermal Characteristics

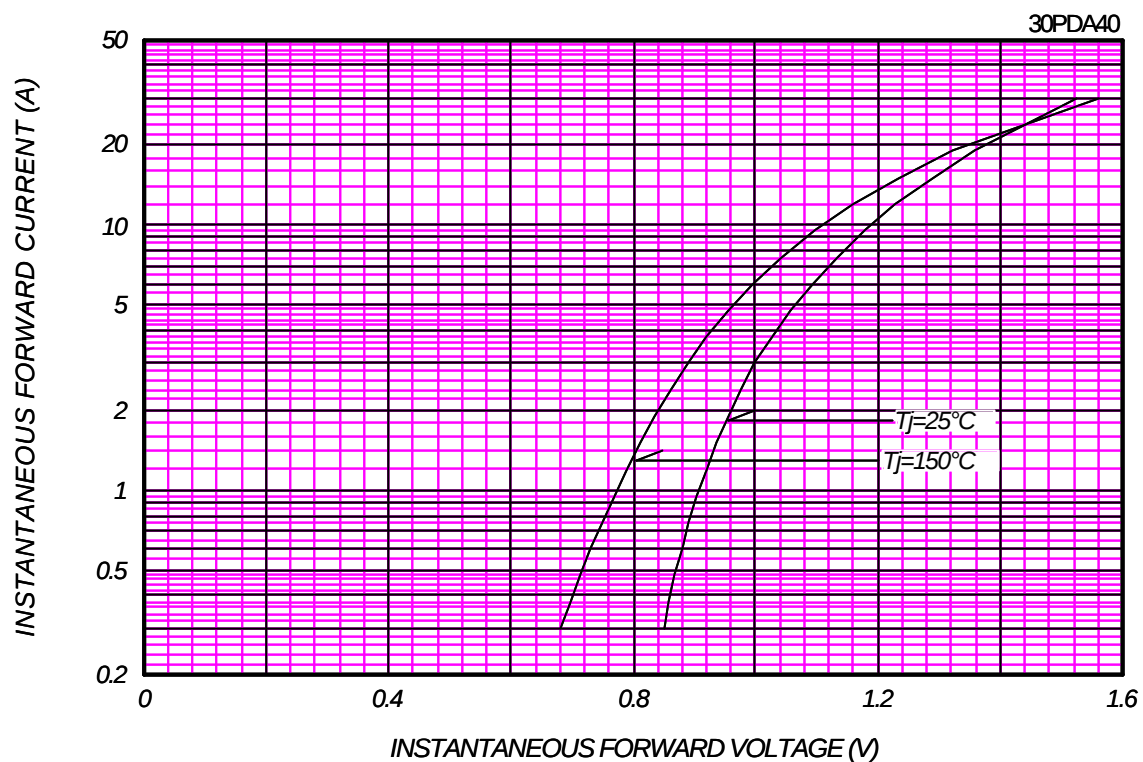
Characteristics	Symbol	Conditions	Min.	Typ.	Max.	Unit
Peak Reverse Current	I_{RM}	$T_j= 25^{\circ}\text{C}$, $V_{RM}= V_{RRM}$	-	-	10	μA
Peak Forward Voltage	V_{FM}	$T_j= 25^{\circ}\text{C}$, $I_{FM}= 3.0\text{A}$	-	-	1.0	V
Thermal Resistance	$R_{th(j-a)}$	Junction to Ambient *1	-	-	80	°C/W
	$R_{th(j-l)}$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

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

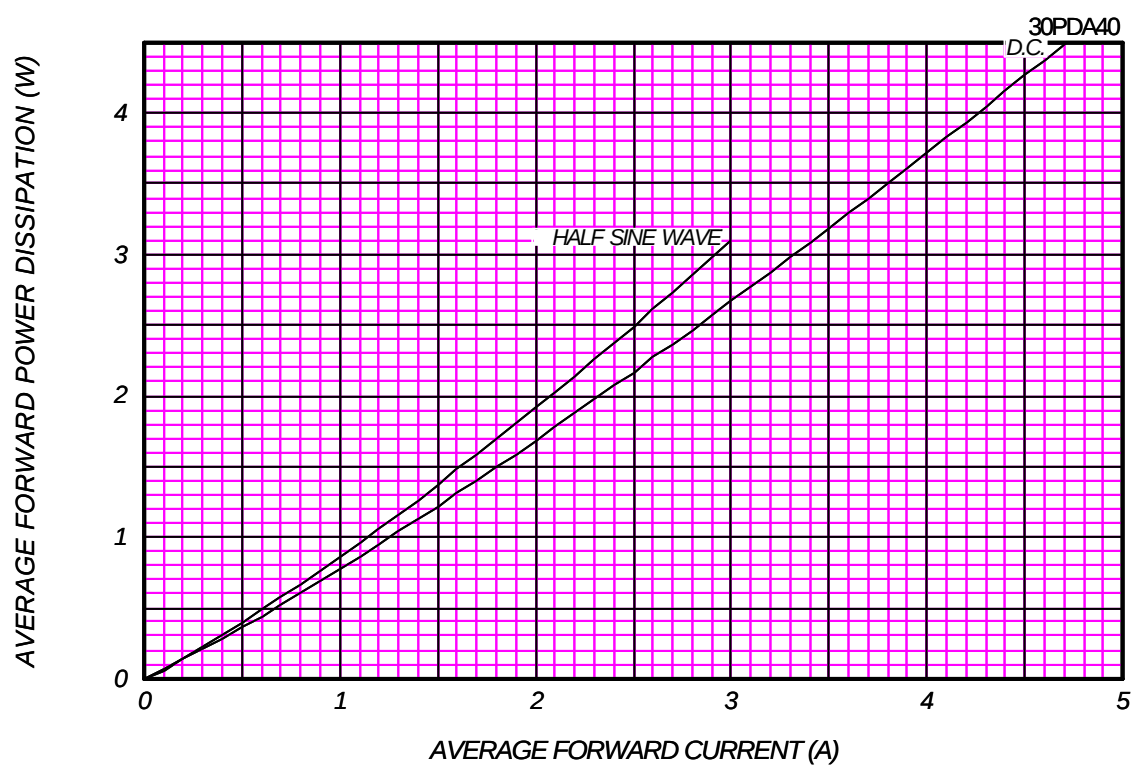
30PDA OUTLINE DRAWING (Dimensions in mm)



FORWARD CURRENT VS. VOLTAGE



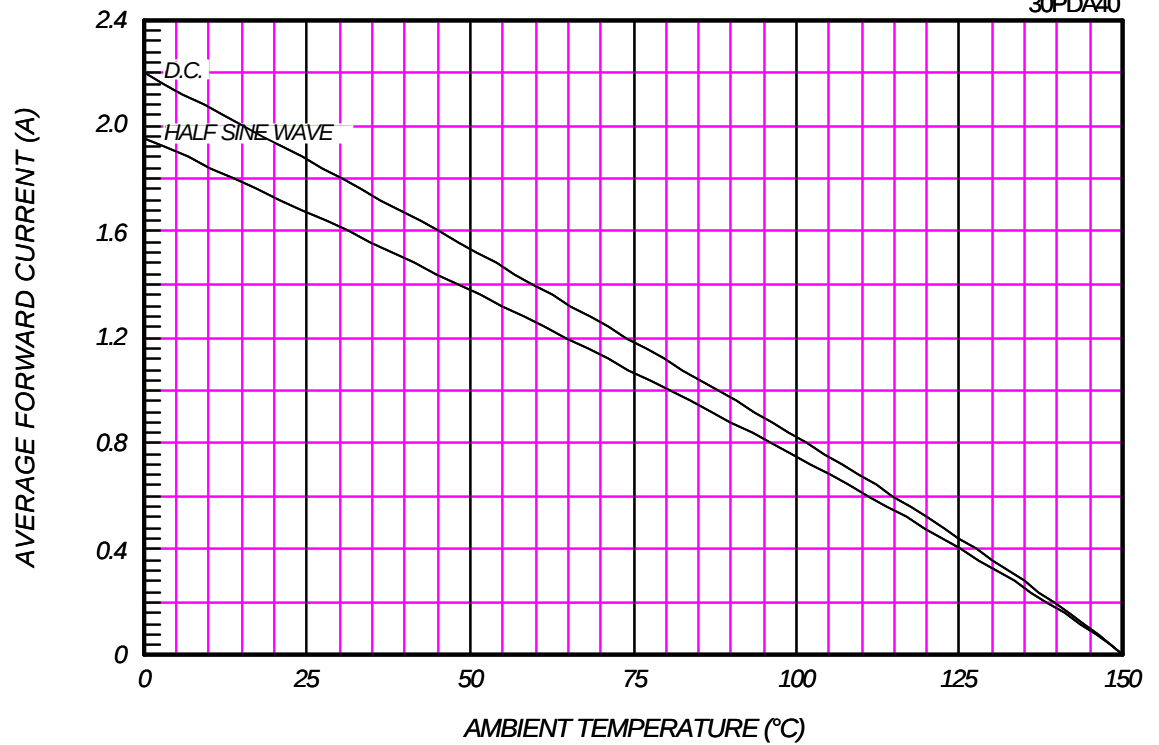
AVERAGE FORWARD POWER DISSIPATION



AVERAGE FORWARD CURRENT VS. AMBIENT TEMPERATURE

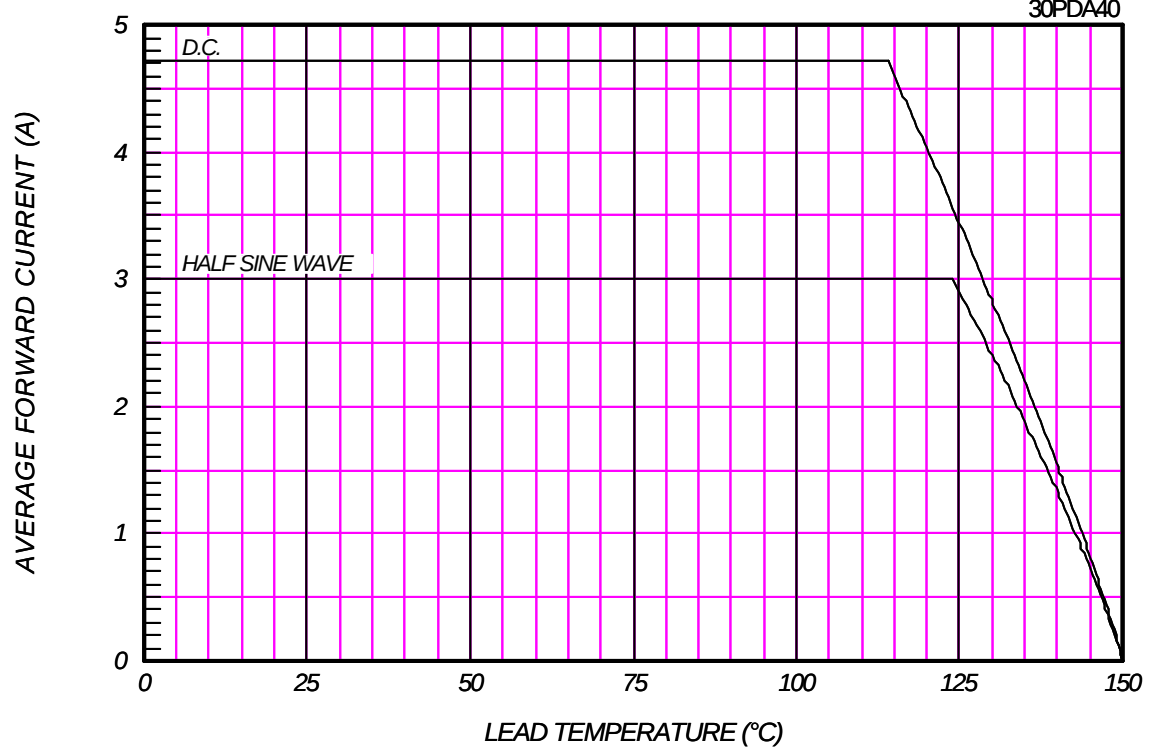
Without Fin or P.C. Board

30PDA40



AVERAGE FORWARD CURRENT VS. LEAD TEMPERATURE

30PDA40



SURGE CURRENT RATINGS

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

30PDA40

