

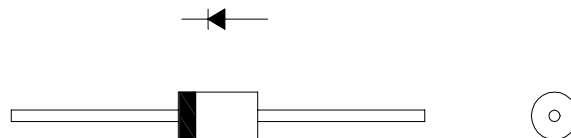
DIODE Type : 30PDA10

3A 100V $T_j = 150^\circ\text{C}$

OUTLINE DRAWING

FEATURES

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



Maximum Ratings

Approx Net Weight:1.24g

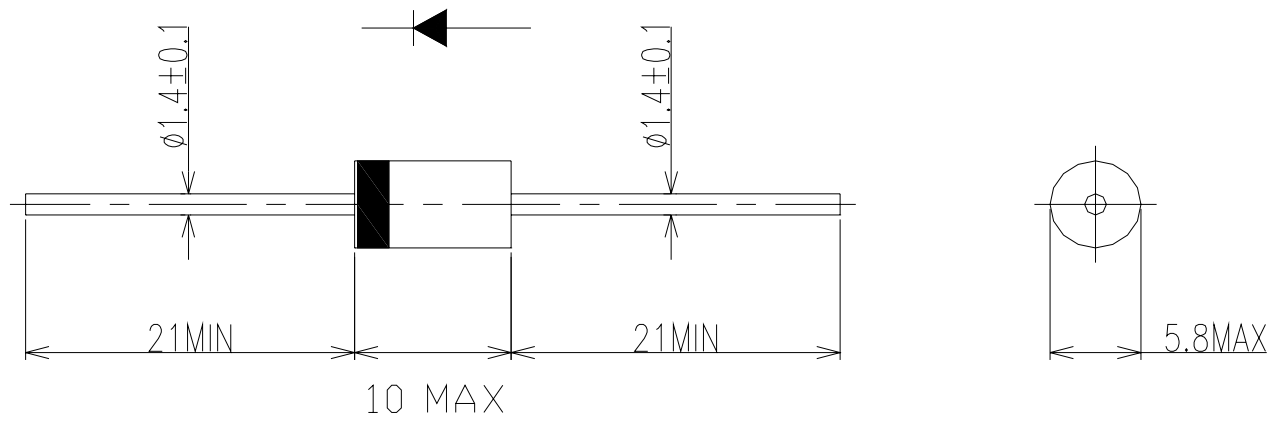
Rating	Symbol	30PDA10			Unit
Repetitive Peak Reverse Voltage	V_{RRM}	100			V
Average Rectified Output Current	I_O	50Hz Half Sine Wave Resistive Load	$T_a = 31^\circ\text{C}$ *1	1.6	A
			$T_l = 124^\circ\text{C}$ (T_l : Lead Temperature)	3.0	
RMS Forward Current	$I_{F(RMS)}$				4.71
Surge Forward Current	I_{FSM}	50Hz Half Sine Wave, 1cycle, Non-repetitive			100
Operating Junction Temperature Range	T_{jw}	- 40 to + 150			$^\circ\text{C}$
Storage Temperature Range	T_{stg}	- 40 to + 150			$^\circ\text{C}$

Electrical • Thermal Characteristics

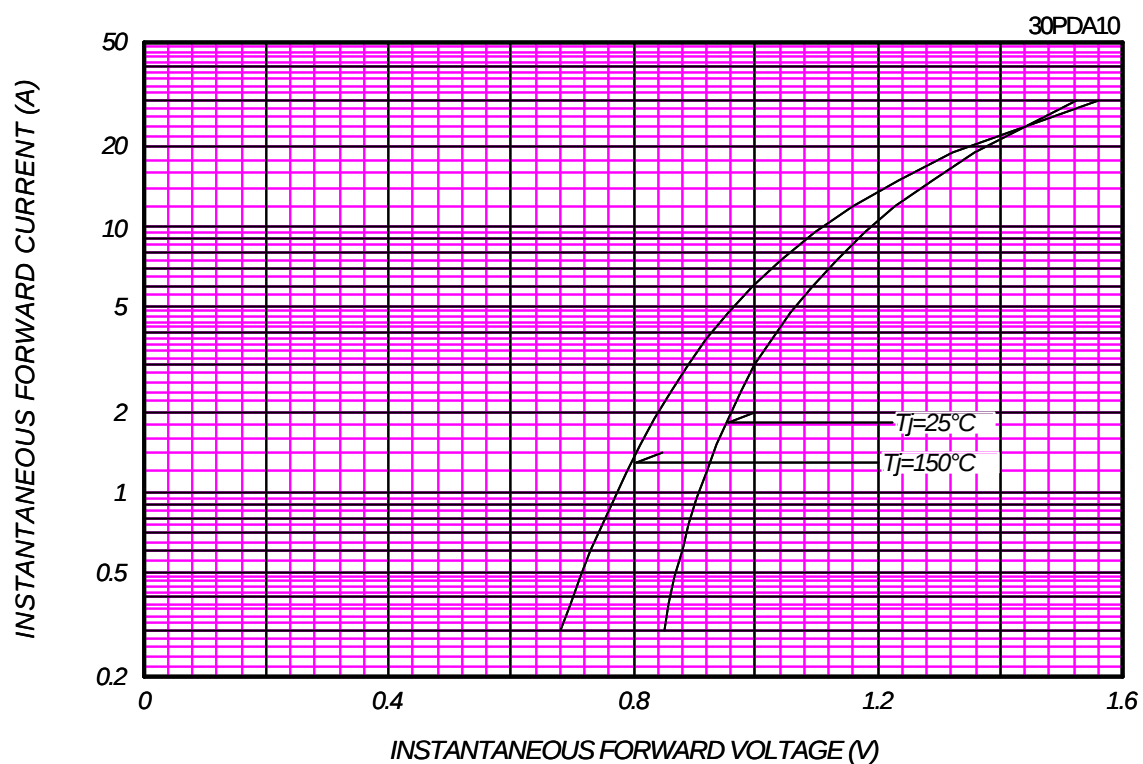
Characteristics	Symbol	Conditions	Min.	Typ.	Max.	Unit
Peak Reverse Current	I_{RM}	$T_j = 25^\circ\text{C}$, $V_{RM} = V_{RRM}$	-	-	10	μA
Peak Forward Voltage	V_{FM}	$T_j = 25^\circ\text{C}$, $I_{FM} = 3.0\text{A}$	-	-	1.0	V
Thermal Resistance	$R_{th(j-a)}$	Junction to Ambient *1	-	-	80	$^\circ\text{C/W}$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

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

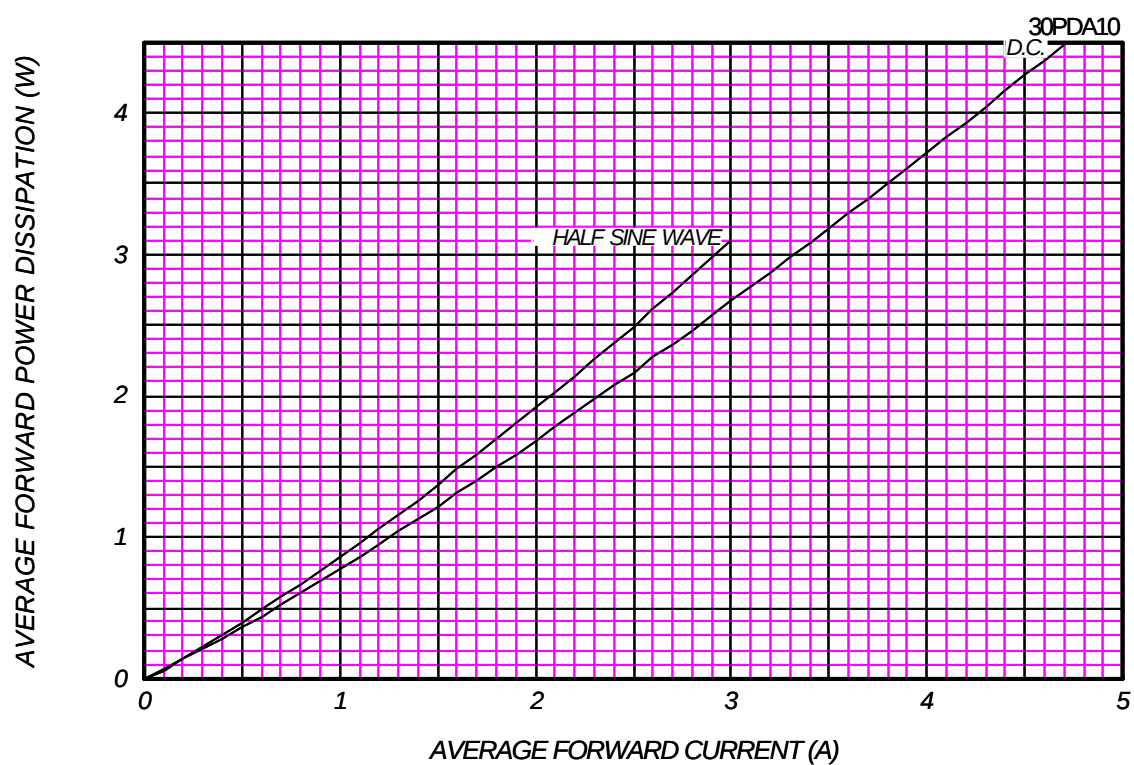
30PDA OUTLINE DRAWING (Dimensions in mm)



FORWARD CURRENT VS. VOLTAGE



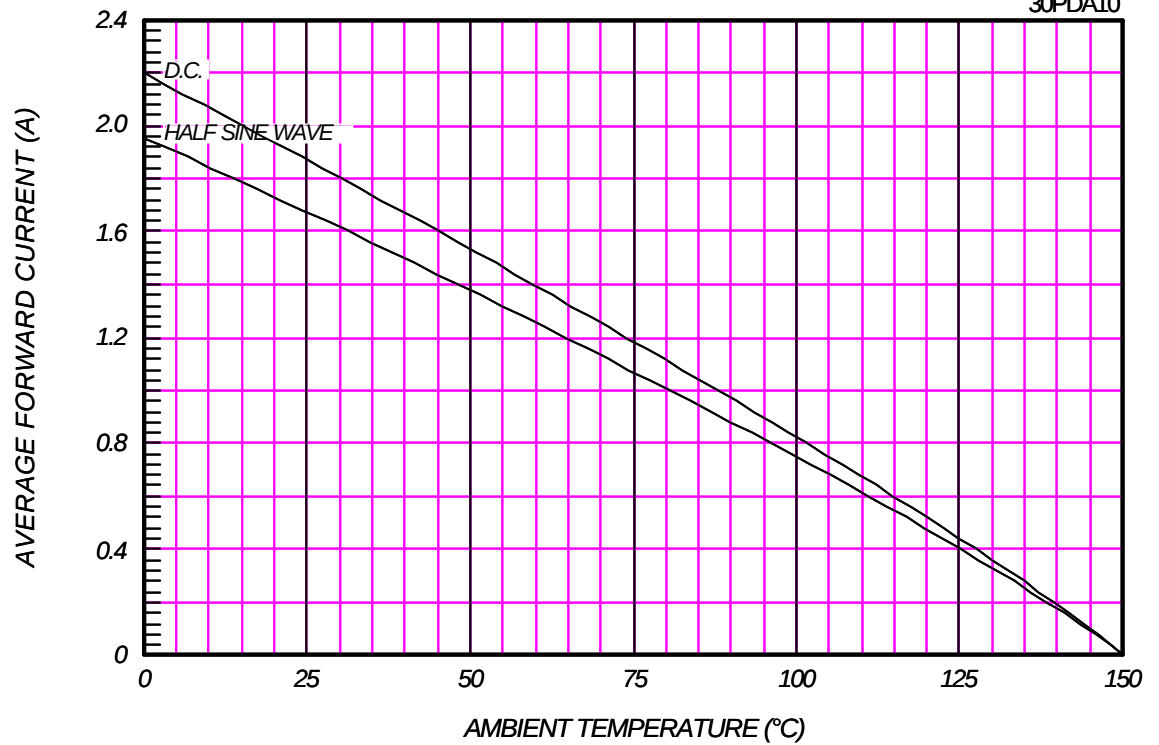
AVERAGE FORWARD POWER DISSIPATION



AVERAGE FORWARD CURRENT VS. AMBIENT TEMPERATURE

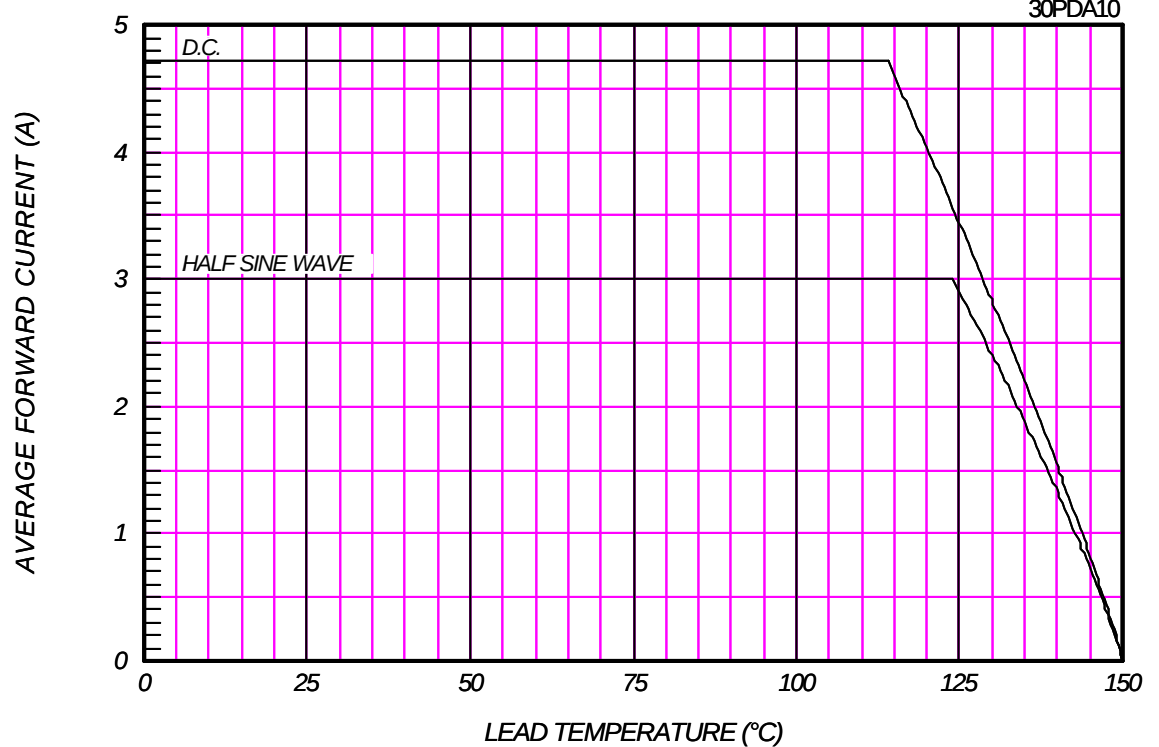
Without Fin or P.C. Board

30PDA10



AVERAGE FORWARD CURRENT VS. LEAD TEMPERATURE

30PDA10



SURGE CURRENT RATINGS

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

30PDA10

