

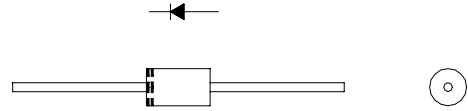
# DIODE Type : 30PUB60

OUTLINE DRAWING

3A 600V 27ns

## FEATURES

- \* Ultra-Fast Recovery
- \* Low Forward Voltage drop
- \* Low Reverse Leakage Current
- \* High Surge Capability



## Maximum Ratings

Approx Net Weight:1.21g

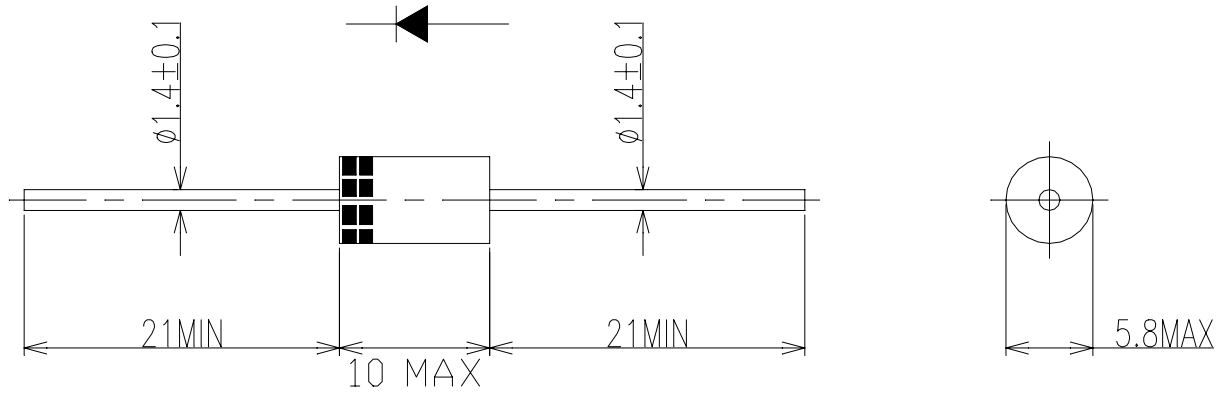
Rating	Symbol	30PUB60			Unit	
Repetitive Peak Reverse Voltage	$V_{RRM}$	600			V	
Average Rectified Output Current	$I_O$	50Hz Half Sine Wave Resistive Load	$T_a=43^{\circ}C$ *1	1.6	A	
			$T_l=89^{\circ}C$ ( $T_l$ : Lead Temperature)	3.0		
RMS Forward Current	$I_{F(RMS)}$				4.71	A
Surge Forward Current	$I_{FSM}$	50Hz Half Sine Wave, 1 cycle, Non-repetitive			45	A
Operating Junction Temperature Range	$T_{jw}$	- 40 to + 150			$^{\circ}C$	
Storage Temperature Range	$T_{stg}$	- 40 to + 150			$^{\circ}C$	

## Electrical • Thermal Characteristics

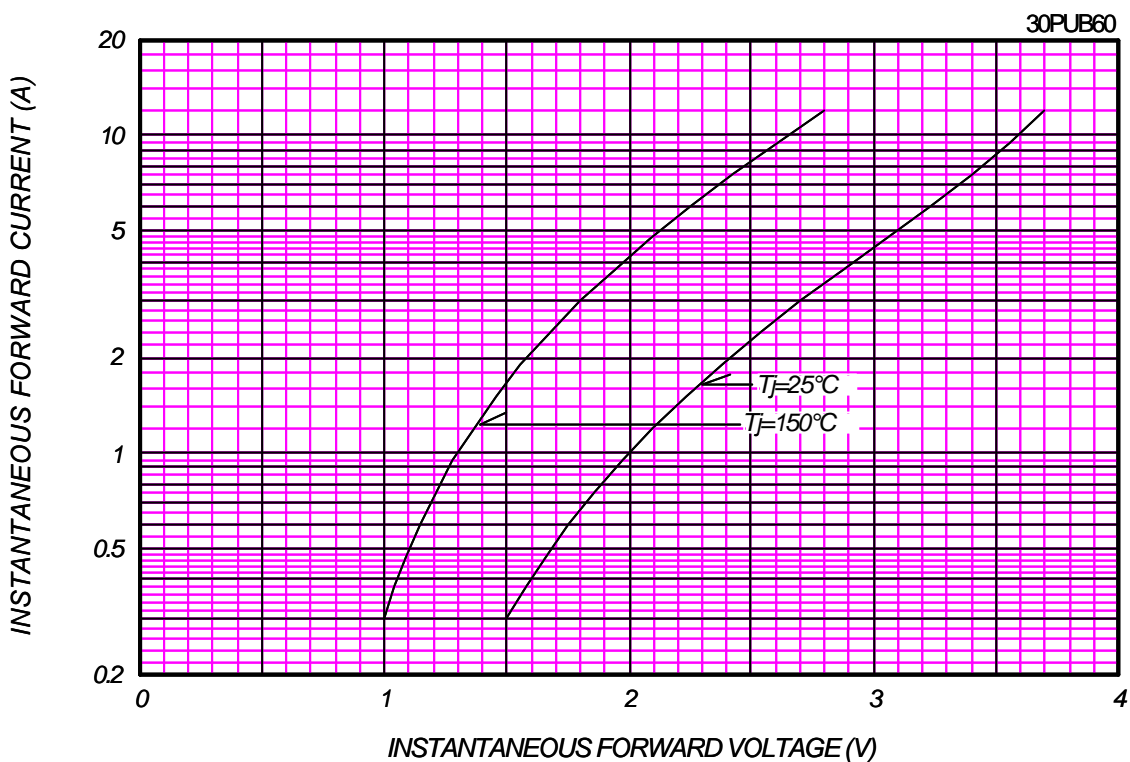
Characteristics	Symbol	Conditions	Min.	Typ.	Max.	Unit
Peak Reverse Current	$I_{RM}$	$T_j= 25^{\circ}C, V_{RM}= V_{RRM}$	-	-	20	$\mu A$
Peak Forward Voltage	$V_{FM}$	$T_j= 25^{\circ}C, I_{FM}= 3.0A$			2.7	V
Reverse Recovery Time	trr	$T_j= 25^{\circ}C, I_{FM}= 3.0A -di/dt=50A/\mu s$	-	-	27	ns
Thermal Resistance	$R_{th(j-a)}$	Junction to Ambient *1(With Fin)	-	-	34	$^{\circ}C/W$
	$R_{th(j-l)}$	Junction to Lead	-	-	8	

1: With Cu Fin ( 20x20x1, L-5mm, Both sides)

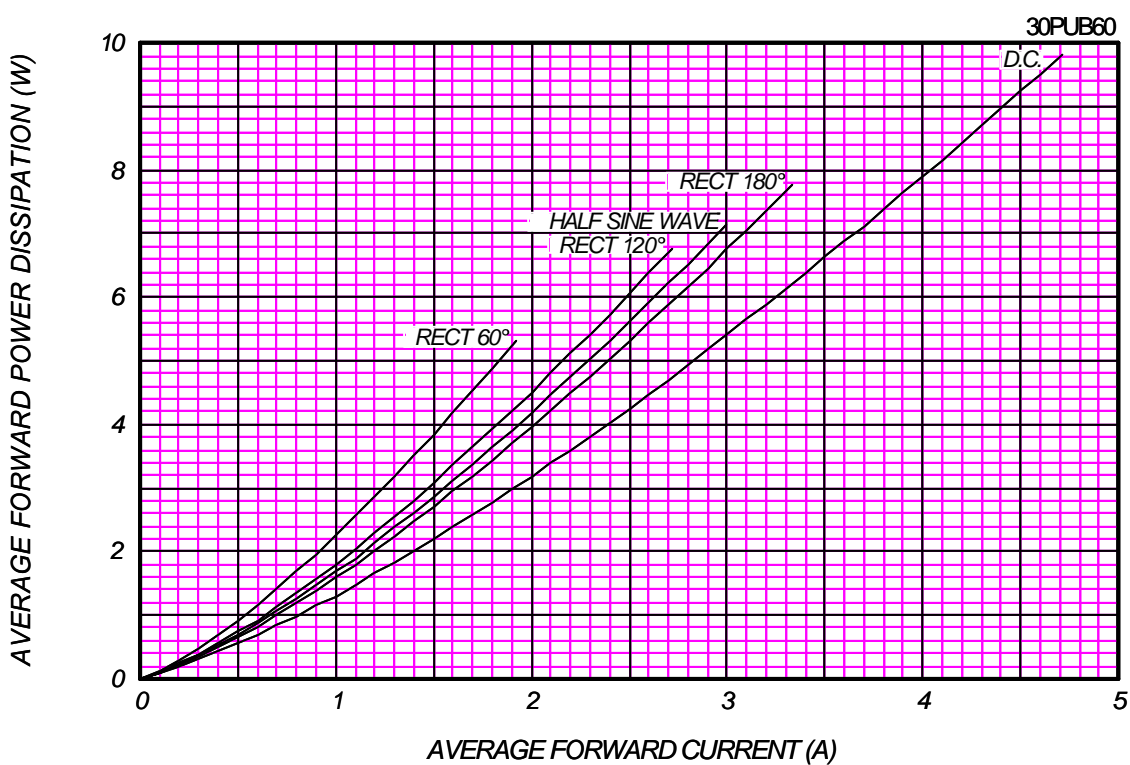
30PU\*\_ OUTLINE DRAWING (Dimensions in mm)



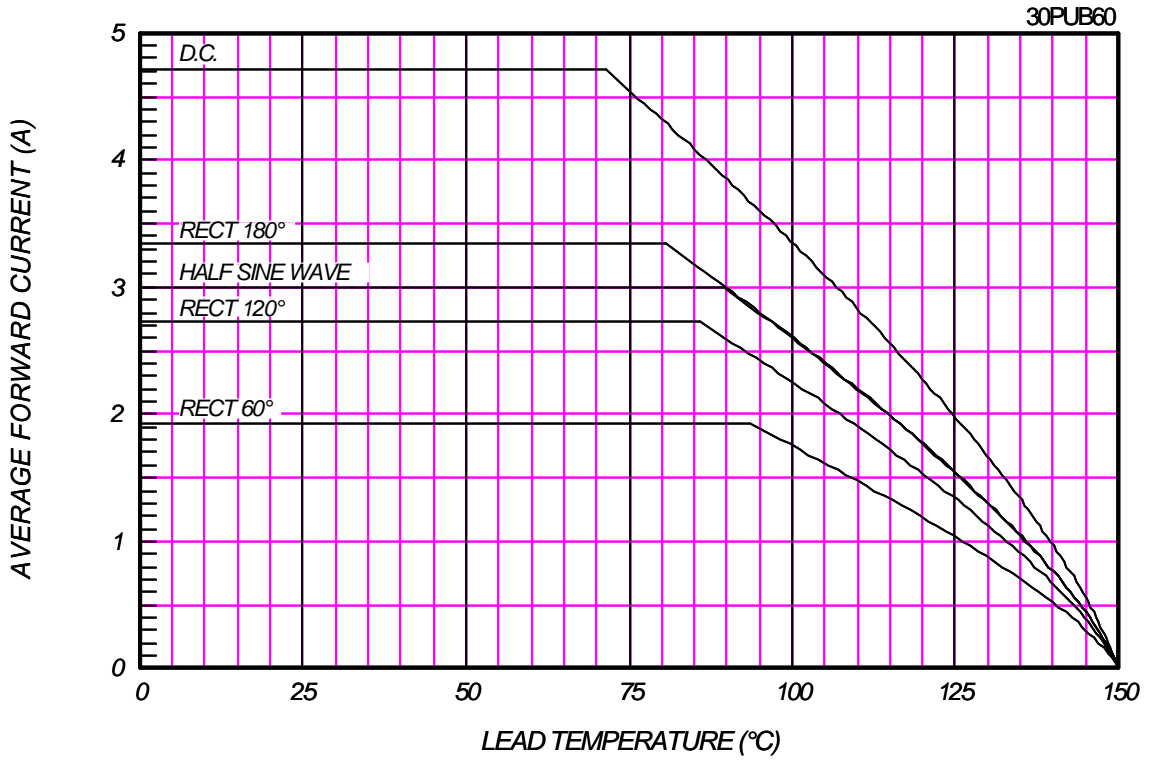
### FORWARD CURRENT VS. VOLTAGE



### AVERAGE FORWARD POWER DISSIPATION

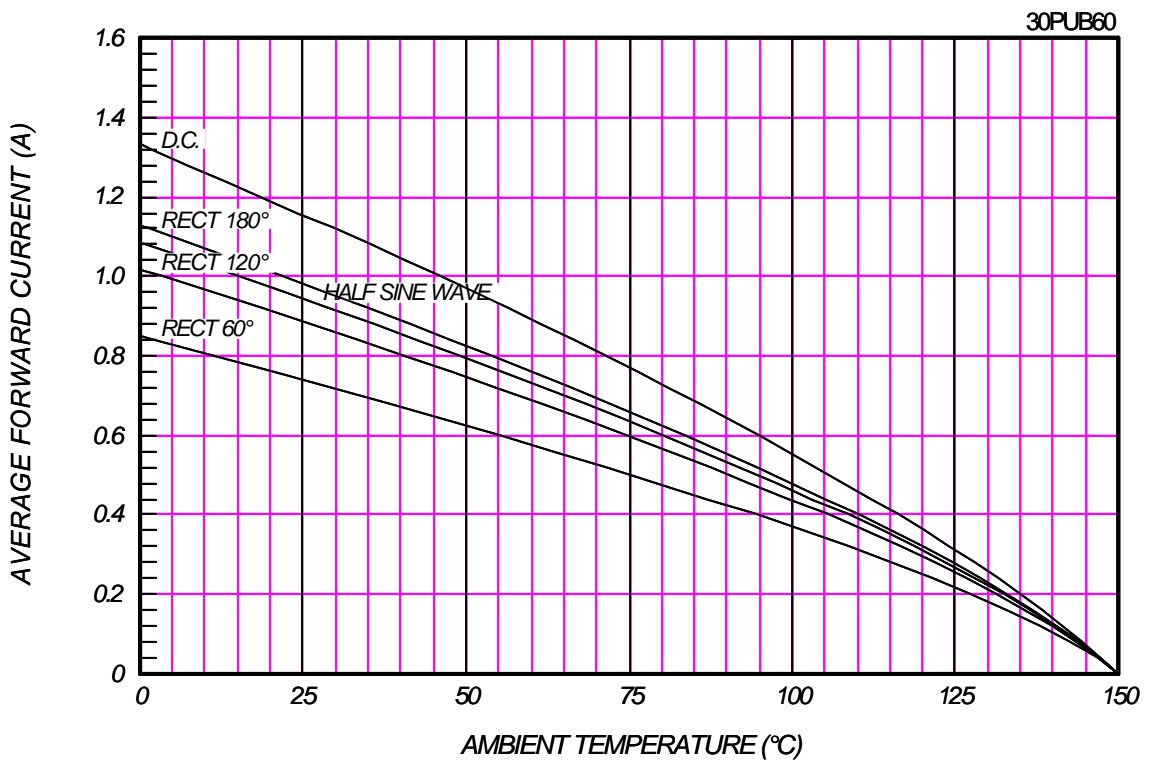


AVERAGE FORWARD CURRENT VS. LEAD TEMPERATURE



AVERAGE FORWARD CURRENT VS. AMBIENT TEMPERATURE

Without Fin or P.C. Board



# SURGE CURRENT RATINGS

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

30PUB60

