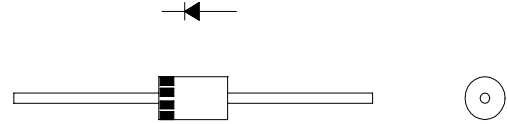


# SBD Type : 31DQ09

## OUTLINE DRAWING

### FEATURES

- \* Low Forward Voltage Drop
- \* Low Power Loss, High Efficiency
- \* High Surge Capability
- \* 30volts trough 100volts Types Available



### Maximum Ratings

Approx Net Weight:1.18g

Rating	Symbol	31DQ09			Unit
Repetitive Peak Reverse Voltage	$V_{RRM}$	90			V
Average Rectified Output Current	$I_O$	1.7	$T_a=33^{\circ}C$	Half Sine Wave Resistive Load	A
		3.0	$T_a=62^{\circ}C$		
RMS Forward Current	$I_{F(RMS)}$	4.71			A
Surge Forward Current	$I_{FSM}$	100	Half Sine Wave,1cycle,Non-repetitive		A
Operating JunctionTemperature 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	$I_{RM}$	$T_j= 25^{\circ}C, V_{RM}= V_{RRM}$	-	-	1	mA
Peak Forward Voltage	$V_{FM}$	$T_j= 25^{\circ}C, I_{FM}= 3 A$	-	-	0.85	V
Thermal Resistance(Junction to Ambient)	$R_{th(j-a)}$	Without Fin or P.C.Board	-	-	80	$^{\circ}C/W$
		With Fin *1			34	

\*1 :20x20x1t(mm) Copper plates, L=5mm, Both Sides

31DQ09 OUTLINE DRAWING (Dimensions in mm)

