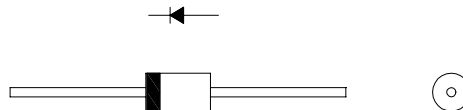


FRD Type: 30DF4

FEATURES

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

OUTLINE DRAWING



Maximum Ratings

Apporox Net Weight:1.19g

Rating	Symbol	31DF4			Unit
Repetitive Peak Reverse Voltage	V _{RRM}	400			V
Non-repetitive Peak Reverse Voltage	V _{RSM}	500			V
Average Rectified Output Current	I _O	1.57	Ta=25°C *1	50Hz Half Sine Wave Resistive Load	A
		3.0	Tl=119°C (Tl:Lead Temperature)		
RMS Forward Current	I _{F(RMS)}	4.71			A
Surge Forward Current	I _{FSM}	120	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}	$T_j= 25^{\circ}\text{C}$, $I_{FM}= 3 \text{ A}$	-	-	1.25	V
Reverse Recovery Time	t_{rr}	$T_a= 25^{\circ}\text{C}$, $I_F=I_R=10\text{mA}$			400	ns
Thermal Resistance	$R_{th(j-a)}$	Junction to Ambient *1:Without Fin.	-	-	80	$^{\circ}\text{C/W}$
	$R_{th(j-l)}$	Junction to Lead			8	

*1: Without Fin or P.C. Board

30DF4 OUTLINE DRAWING (Dimensions in mm)

