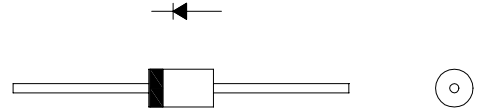


FRD Type: 31DF6

FEATURES

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

OUTLINE DRAWING



Maximum Ratings

Apporox Net Weight:1.19g

Rating	Symbol	31DF6		Unit
Repetitive Peak Reverse Voltage	V_{RRM}	600		V
Average Rectified Output Current	I_O	1.2	$T_a=29^{\circ}\text{C}$ *1	50Hz Half Sine Wave Resistive Load
		3.0	$T_l=109^{\circ}\text{C}$ T_l :Lead Temperature	
RMS Forward Current	$I_{F(RMS)}$	4.71		A
Surge Forward Current	I_{FSM}	45	50Hz Half Sine Wave,1cycle, Non-repetitive	A
Operating JunctionTemperature 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}	$T_j= 25^{\circ}\text{C}$, $V_{RM}= V_{RRM}$	-	-	20	μA
Peak Forward Voltage	V_{FM}	$T_j= 25^{\circ}\text{C}$, $I_{FM}= 3 \text{ A}$	-	-	1.7	V
Reverse Recovery Time	t_{rr}	$T_a= 25^{\circ}\text{C}$, $I_{FM}=3 \text{ A}$ $-di/dt=50\text{A}/\mu\text{s}$			35	ns
Thermal Resistance	$R_{th(j-a)}$	Junction to Ambient *1:Without Fin.	-	-	80	$^{\circ}\text{C}/\text{W}$
	$R_{th(j-l)}$	Junction to Lead			8	

*1: Without Fin or P.C. Board

31DF6 OUTLINE DRAWING (Dimensions in mm)

