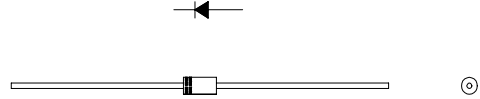


FRD Type :10DF4

OUTLINE DRAWING

FEATURES

- * Miniature Size
- * Super Fast Recovery
- * Low Forward Voltage drop
- * Low Power Loss, High Efficiency
- * High Surge Capability
- * 100 Volts thru 600 Volts Types Available
- * 52mm Inside Tape Spacing Package Available



Maximum Ratings

Approx Net Weight:0.33g

Rating	Symbol	10DF4		Unit
Repetitive Peak Reverse Voltage	V_{RRM}	400		V
Non-repetitive Peak Reverse Voltage	V_{RSM}	500		V
Average Rectified Output Current	I_O	1.0	$T_a=12^{\circ}\text{C}$ *1 50Hz Half Sine Wave Resistive Load	A
			$T_a=52^{\circ}\text{C}$ *2	
RMS Forward Current	$I_{F(RMS)}$	1.57		A
Surge Forward Current	I_{FSM}	40	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}	$T_j= 25^{\circ}\text{C}$, $V_{RM}= V_{RRM}$	-	-	10	μA
Peak Forward Voltage	V_{FM}	$T_j= 25^{\circ}\text{C}$, $I_{FM}= 1.0\text{A}$	-	-	1.2	V
Reverse Recovery Time	trr	$T_a= 25^{\circ}\text{C}$, $I_F=I_R=10\text{mA}$	-	-	500	ns
		$-di/dt=50\text{A}/\mu\text{s}$, $I_{FM}=1\text{A}$, $T_a=25$	-	-	100	
Thermal Resistance	Rth(j-a)	Junction to Ambient	-	-	115	$^{\circ}\text{C}/\text{W}$
					*1 : Without Fin	
		*2 : P.C. Board mounted			81	

*1 : Without Fin or P.C. Board

*2 : P.C. Board mounted(L=8mm,Print Lands =10x10mm,Both Sides)

10DF4 OUTLINE DRAWING (Dimensions in mm)

