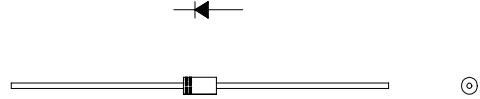


# FRD Type :10DF4

## 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	Ta=12°C *1 50Hz Half Sine Ta=52°C *2 Wave Resistive Load	A
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		°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	$\mu\text{A}$
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	°C/W
					*1 : Without Fin	
		*2 : P.C. Board mounted				

\*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)

