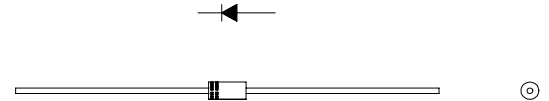


# FRD Type : 10DF1

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	10DF1			Unit
Repetitive Peak Reverse Voltage	$V_{RRM}$	100			V
Non-repetitive Peak Reverse Voltage	$V_{RSM}$	200			V
Average Rectified Output Current	$I_O$	1.0	$T_a=25^\circ\text{C}$	50Hz Half Sine 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 Junction Temperature 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	$I_{RM}$	$T_j = 25^\circ\text{C}, V_{RM} = V_{RRM}$	-	-	5	$\mu\text{A}$
Peak Forward Voltage	$V_{FM}$	$T_j = 25^\circ\text{C}, I_{FM} = 1.0\text{A}$	-	-	1.05	V
Reverse Recovery Time	trr	$T_a = 25^\circ\text{C}, I_F = I_R = 10\text{mA}$			200	ns
Thermal Resistance	$R_{th(j-a)}$	Junction to Ambient	-	-	115	$^\circ\text{C/W}$

10DF1 OUTLINE DRAWING (Dimensions in mm)

