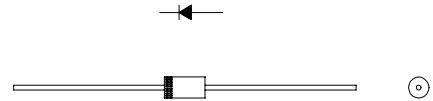


# FRD Type: 15DF6

## FEATURES

- \* Miniature Size
- \* Super Fast Recovery
- \* Low Forward Voltage Drop
- \* Low Power Loss, High Efficiency
- \* High Surge Capability
- \* 52mm Inside Tape Spacing Packing Available

## OUTLINE DRAWING



## Maximum Ratings

Apporox Net Weight:0.38g

Rating	Symbol	15DF6			Unit
Repetitive Peak Reverse Voltage	$V_{RRM}$	600			V
Non-repetitive Peak Reverse Voltage	$V_{RSM}$	700			V
Average Rectified Output Current	$I_O$	1.0	$T_a=32^{\circ}C$ *1	50Hz Half Sine Wave Resistive Load	A
		3.0	$T_a=39^{\circ}C$ *2		
RMS Forward Current	$I_{F(RMS)}$	2.04			A
Surge Forward Current	$I_{FSM}$	70	50Hz Half Sine Wave, 1cycle, Non-repetitive		A
Operating JunctionTemperature Range	$T_{jw}$	- 40 to + 150			$^{\circ}C$
Storage Temperature Range	$T_{stg}$	- 40 to + 150			$^{\circ}C$

## Electrical/Thermal • Characteristics

Characteristics	Symbol	Conditions	Min.	Typ.	Max.	Unit
Peak Reverse Current	$I_{RM}$	$T_j = 25^{\circ}C, V_{RM} = V_{RRM}$	-	-	10	$\mu A$
Peak Forward Voltage	$V_{FM}$	$T_j = 25^{\circ}C, I_{FM} = 1.3 A$	-	-	1.2	V
Reverse Recovery Time	$t_{rr}$	$T_a = 25^{\circ}C, I_{FM} = 1.3 A -di/dt = 50A/\mu s$			150	ns
Thermal Resistance (Junction to Ambient)	$R_{th(j-a)}$	*1: Without Fin.	-	-	105	$^{\circ}C/W$
		*2: P.C.Board mounted			70	

\*1: Without Fin or P.C. Board

\*2: P.C.Board mounted (Print Lands=15x15mm, L=8mm, Both Sides)

15DF6 OUTLINE DRAWING (Dimensions in mm)

