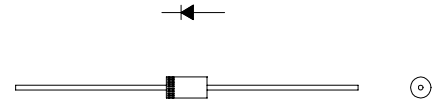


FRD Type: 15DF6

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	$T_a=32^{\circ}\text{C}$ *1	50Hz Half Sine Wave Resistive Load	A
		3.0	$T_a=39^{\circ}\text{C}$ *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			$^{\circ}\text{C}$
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}	$T_j = 25^{\circ}\text{C}$, $I_{FM} = 1.3 \text{ A}$	-	-	1.2	V
Reverse Recovery Time	t_{rr}	$T_a = 25^{\circ}\text{C}$, $I_{FM} = 1.3 \text{ A}$ $-di/dt = 50 \text{ A}/\mu\text{s}$			150	ns
Thermal Resistance (Junction to Ambient)	$R_{th(j-a)}$	*1: Without Fin.	-	-	105	$^{\circ}\text{C}/\text{W}$
		*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)

