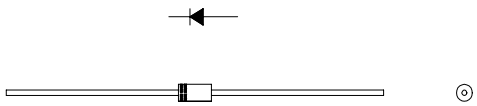
Nihon Inter Electronics Corporation

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℃ ∗1 Ta=52℃ ∗2	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 JunctionTemperature Range	T_{jw}	- 40 to + 150			℃
Storage Temperature Range	T_{stg}	- 40 to + 150			℃

Electrical • Thermal Characteristics

Characteristics	Symbol	Conditions		Min.	Typ.	Max.	Unit
Peak Reverse Current	I_{RM}	Tj= 25℃, V_{RM}= V_{RRM}		-	-	10	μA
Peak Forward Voltage	V_{FM}	Tj= 25℃, I_{FM}= 1.0A		-	-	1.2	V
Reverse Recovery Time	trr	Ta= 25℃, I_F=I_R=10mA		-	-	500	ns
		-di/dt=50A/μs, I_{FM}=1A, Ta=25				100	
Thermal Resistance	Rth(j-a)	Junction to Ambient	∗1 : Without Fin	-	-	115	℃/W
			∗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)

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10DF4 OUTLINE DRAWING (Dimensions in mm)