



TAYCHIPST

Super Fast Recovery Diode

30DF2

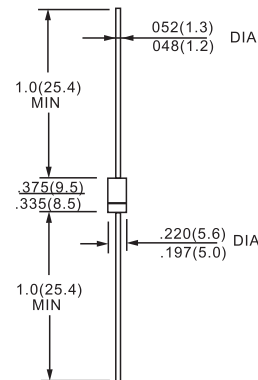
200V-300V

1.66A-3.0A

FEATURES

- * Miniature Size
- * Low Forward Voltage drop
- * Low Reverse Leakage Current
- * High Surge Capability
- * 26mm and 52mm Inside Tape Spacing Package Available

DO-27



Dimensions in inches and (millimeters)

MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Maximum Ratings

Rating	Symbol	30DF2		Unit
Repetitive Peak Reverse Voltage	V_{RRM}	200		V
Non-repetitive Peak Reverse Voltage	V_{RSM}	300		V
Average Rectified Output Current	I_O	1.66	$T_a=25^{\circ}C$ *1	50Hz Half Sine Wave Resistive Load
		3.0	$T_l=122^{\circ}C$ (T_l :Lead Temperature)	
RMS Forward Current	$I_{F(RMS)}$	4.71		A
Surge Forward Current	I_{FSM}	110	50Hz Half Sine Wave, 1cycle, Non-repetitive	A
Operating Junction Temperature 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}	$T_j= 25^{\circ}C, V_{RM}= V_{RRM}$	-	-	5	μA
Peak Forward Voltage	V_{FM}	$T_j= 25^{\circ}C, I_{FM}= 3 A$	-	-	1.05	V
Reverse Recovery Time	t_{rr}	$T_a= 25^{\circ}C, I_F=I_R=10mA$			200	ns
Thermal Resistance	$R_{th(j-a)}$	Junction to Ambient *1:Without Fin.	-	-	80	$^{\circ}C/W$
	$R_{th(j-l)}$	Junction to Lead			8	

*1: Without Fin or P.C. Board