

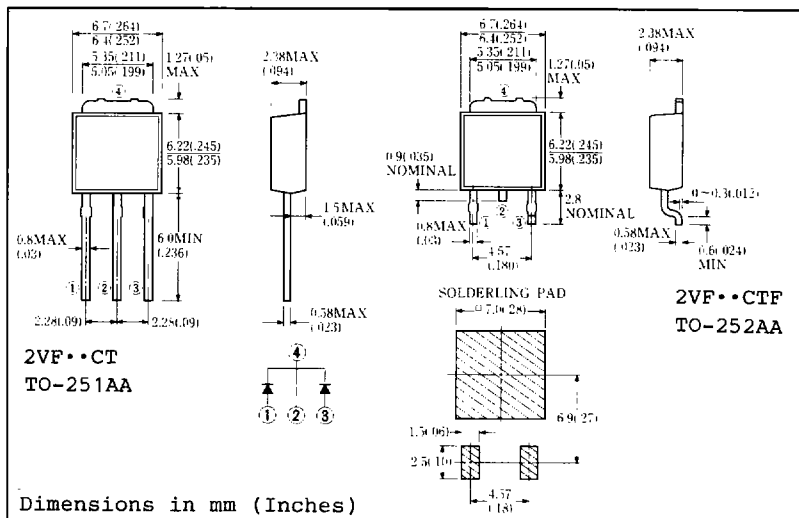
# FAST RECOVERY DIODE

2.2A/100~200V/trr : 30nsec

2VF10CT 2VF20CT  
2VF10CTF 2VF20CTF

## FEATURES

- TO-251AA Case
- TO-252AA Case, Surface Mount Device
- Ultra - Fast Recovery
- Dual Diodes - Cathode Common
- Low Forward Voltage Drop
- High Surge Capability
- 100 Volts thru 400 Volts Types Available
- Packaged in 16mm Tape and Reel (TO-252AA Case)



Approx. Net Weight: 0.35 Grams

0.3 Grams

## MAXIMUM RATINGS

Voltage Rating	TYPE	◆ 2VF10CT	2VF20CT	Unit	
	Symbol	◆ 2VF10CTF	2VF20CTF		
Repetitive Peak Reverse Voltage	$V_{RRM}$	100	200	V	
Non-Repetitive Peak Reverse Voltage	$V_{RSM}$	110	220	V	
Electrical Rating	Symbol	Condition		Rating	Unit
Average Rectified Output Current	$I_O$	Full rectangular wave conduction	$T_C = 135^\circ C$	2.2	A
		Full sinusoidal wave conduction	$T_C = 136^\circ C$	2.0	
			PCB mounted* $T_a = 25^\circ C$	1.6	
RMS Forward Current	$I_{F(RMS)}$			2.22	A
Peak One-cycle Forward Surge Current	$I_{FSM}$	50Hz full sine wave, non-repetitive		30	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	Test Condition	Max.	Unit
Peak Forward Voltage	$V_{FM}$	$I_{FM} = 1A$ $T_j = 25^\circ C$ per diode leg	0.98	V
Peak Reverse Current	$I_{RM}$	$V_{RM} = V_{RRM}$ $T_j = 25^\circ C$ per diode leg	10	$\mu A$
Reverse Recovery Time	$t_{rr}$	$I_{FM} = 1A$ $-di/dt = 50A/\mu S$ $T_j = 25^\circ C$	30	ns
Thermal Resistance	$R_{th(j-a)}$	Junction to Ambient, PCB mounted*	80	$^\circ C/W$
	$R_{th(j-c)}$	Junction to Case	6	

\* P.C. Board Print Land = 20 x 20 mm

◆ For spare parts only

FIG. 1-FORWARD VOLTAGE VS. FORWARD CURRENT

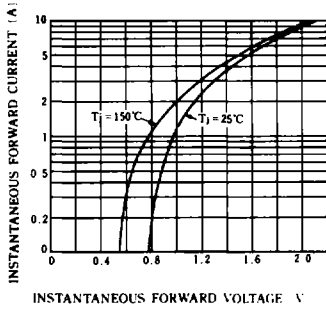


FIG. 2-AVERAGE FORWARD POWER DISSIPATION

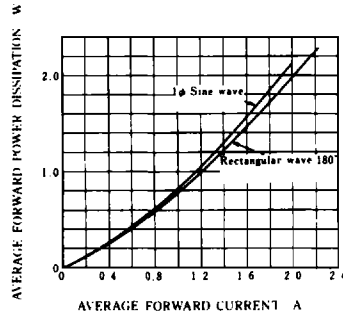


FIG. 3-AVERAGE FORWARD CURRENT VS. AMBIENT TEMPERATURE

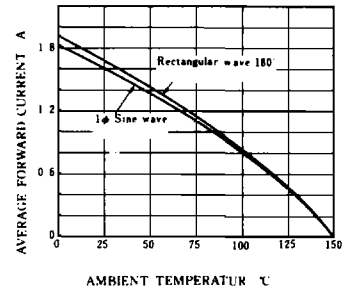


FIG. 4-AVERAGE FORWARD CURRENT VS. CASE TEMPERATURE

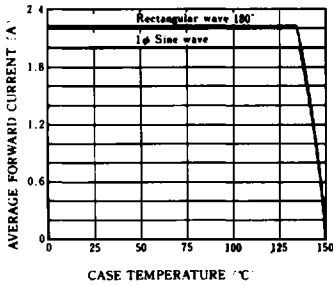


FIG. 5-SURGE CURRENT RATINGS

