

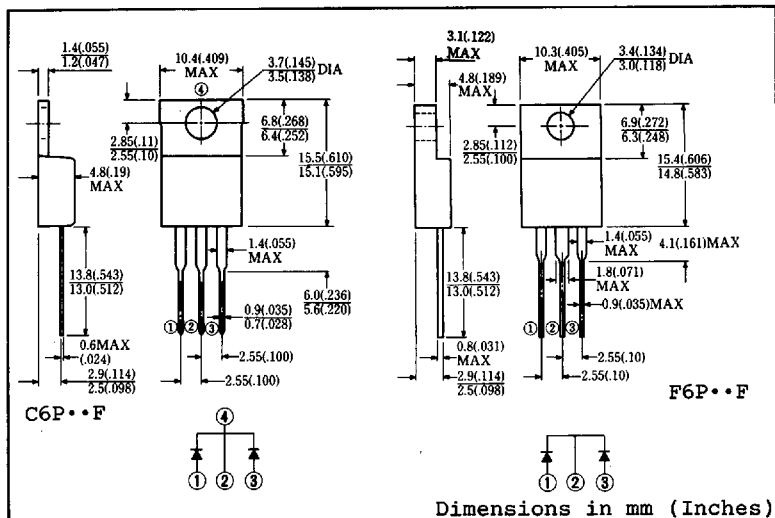
# FAST RECOVERY DIODE

6.6A/100~200V/trr: 30nsec

C6P10F C6P20F  
F6P10F F6P20F

## FEATURES

- Similar to TO-220AB Case
- Fully Mold Isolation (F-Type)
- Dual Diodes - Cathode Common
- Ultra - Fast Recovery
- Low Forward Voltage Drop
- High Surge Capability
- 100 Volts thru 600 Volts  
Types Available



Approx. Net Weight: 1.9 Grams

1.75 Grams

## MAXIMUM RATINGS

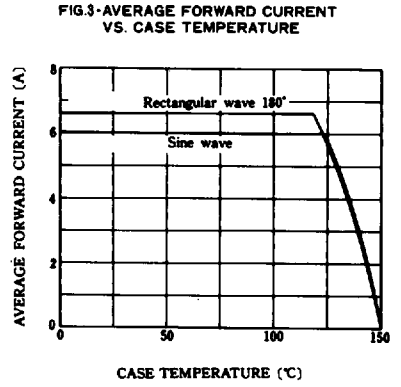
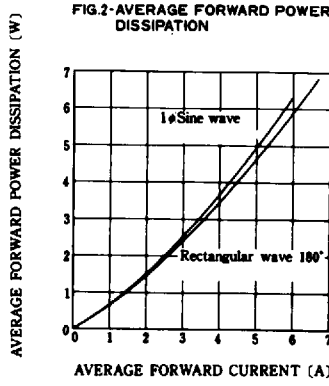
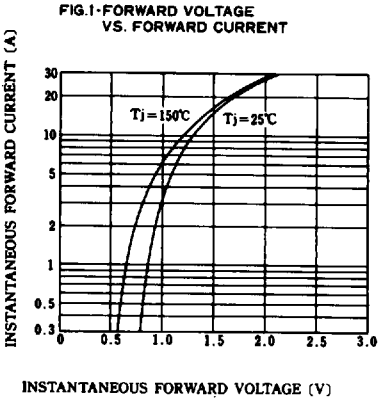
Voltage Rating	TYPE	◆C6P10F	◆F6P10F	C6P20F	F6P20F	Unit
	Symbol					
Repetitive Peak Reverse Voltage	$V_{RRM}$	100			200	V
Non-Repetitive Peak Reverse Voltage	$V_{RSM}$	110			220	V
Electrical Rating	Symbol	Condition			Rating	Unit
Average Rectified Output Current	$I_O$	Full rectangular wave conduction $T_C = 119^\circ\text{C}$			6.6	A
		Full sinusoidal wave conduction $T_C = 123^\circ\text{C}$			6.0	
RMS Forward Current	$I_{F(RMS)}$				6.7	A
Peak One-cycle Forward Surge Current	$I_{FSM}$	50Hz full sine wave, non-repetitive			60	A
Operating Junction Temperature Range	$T_{jw}$				-40 to 150	$^\circ\text{C}$
Storage Temperature Range	$T_{stg}$				-40 to 150	$^\circ\text{C}$
Mounting Torque	$F_{tor}$	Recommended torque			0.5 (5.1)	N•m (kgf•cm)

## ELECTRICAL & THERMAL CHARACTERISTICS

Characteristics	Symbol	Test Condition	Max.	Unit
Peak Forward Voltage	$V_{FM}$	$I_{FM} = 3\text{A}$ $T_j = 25^\circ\text{C}$ per diode leg	0.98	V
Peak Reverse Current	$I_{RM}$	$V_{RM} = V_{RRM}$ $T_j = 25^\circ\text{C}$ per diode leg	10	$\mu\text{A}$
Reverse Recovery Time	$t_{rr}$	$I_{FM} = 3\text{A}$ $-di/dt = 50\text{A}/\mu\text{s}$ $T_j = 25^\circ\text{C}$	30	ns
Thermal Resistance	$R_{th(j-c)}$	Junction to Case	4	$^\circ\text{C}/\text{W}$
	$R_{th(c-f)}$	Case to Fin for F6P type	1.5	

◆ For spare parts only

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**FIG.4-SURGE CURRENT RATINGS**

