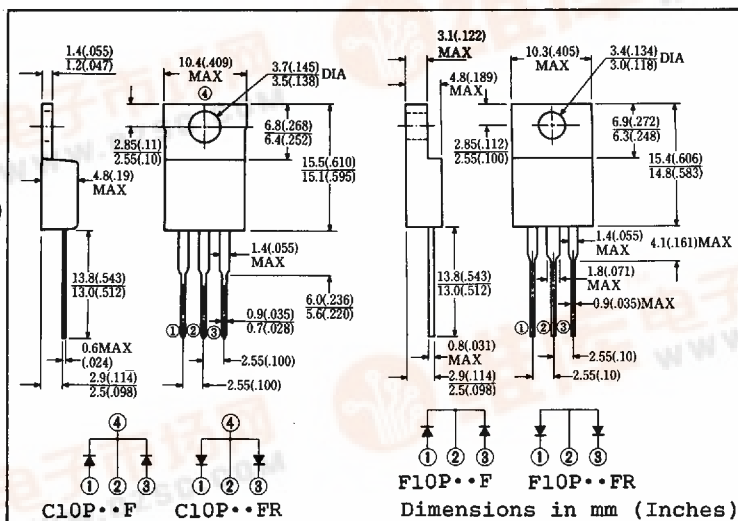


FAST RECOVERY DIODE 11A/300~400V/trr:45 nsec

C10P30F C10P40F 加拿大 C10P30F F10P40F
C10P30FR C10P40FR F10P30FR F10P40FR

FEATURES

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



MAXIMUM RATINGS

Voltage Rating	TYPE Symbol	◆C10P30F ◆F10P30F ◆C10P30FR◆F10P30FR	C10P40F F10P40F C10P40FR F10P40FR	Unit
Repetitive Peak Reverse Voltage	V _{RRM}	300	400	V
Non-Repetitive Peak Reverse Voltage	V _{RSM}	330	440	V
Electrical Rating	Symbol	Condition	Rating	Unit
Average Rectified Output Current	I _O	Full rectangular wave conduction T _C = 105°C	11	A
		Full sinusoidal wave conduction T _C = 112°C	10	
RMS Forward Current	I _{F(RMS)}		11	A
Peak One-cycle Forward Surge Current	I _{FSM}	50Hz full sine wave, non-repetitive	80	A
Operating Junction Temperature Range	T _{jw}		-40 to 150	°C
Storage Temperature Range	T _{stg}		-40 to 150	°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}	$I_{FM} = 5A$ $T_j = 25^\circ\text{C}$ per diode leg	1.25	V
Peak Reverse Current	I_{RM}	$V_{RM} = V_{RRM}$ $T_j = 25^\circ\text{C}$ per diode leg	30	μA
Reverse Recovery Time	t_{rr}	$I_{FM} = 5A$ $-di/dt = 50A/\mu\text{s}$ $T_j = 25^\circ\text{C}$	45	ns
Thermal Resistance	$R_{th(j-c)}$	Junction to Case	3	$^\circ\text{C/W}$
	$R_{th(c-f)}$	Case to Fin for F10P type	1.5	

◆ For spare parts only

FIG.1-FORWARD VOLTAGE
VS. FORWARD CURRENT

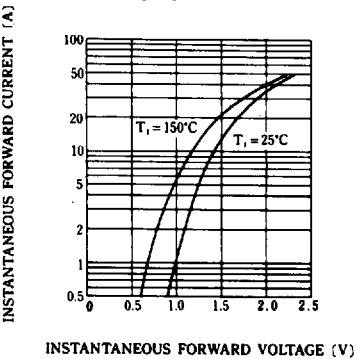


FIG.2-AVERAGE FORWARD POWER
DISSIPATION

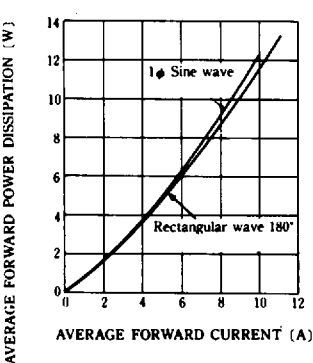


FIG.3-AVERAGE FORWARD CURRENT
VS. CASE TEMPERATURE

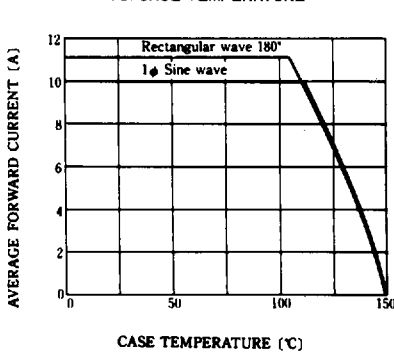


FIG.4-SURGE CURRENT RATINGS

