

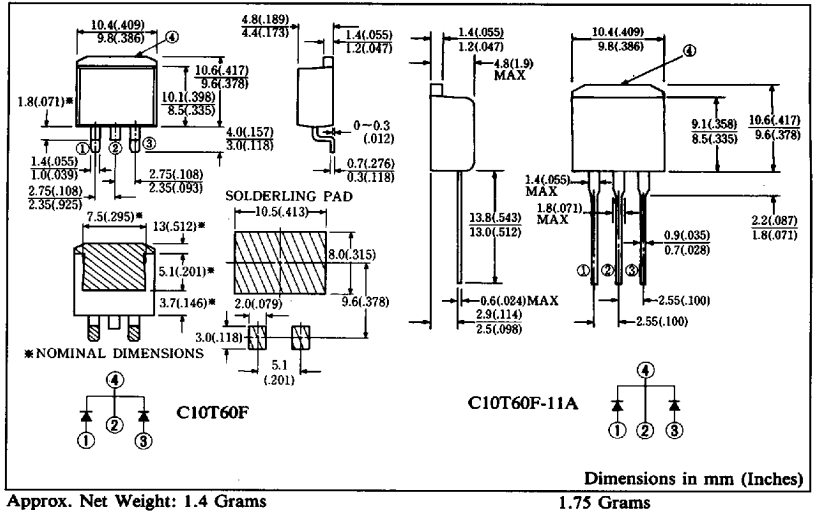
FAST RECOVERY DIODE

11A/600V/trr:40nsec

C10T60F GCF10A60
C10T60F-11A FCF10A60

FEATURES

- **SQUARE-PAK** TO-263AB (SMD) Packaged in 24mm Tape and Reel : C10T60F
- Tableless TO-220: C10T60F-11A
- TO-220AB : GCF10A60
- TO-220AB Fully Molded Isolation : FCF10A60
- Ultra-Fast Recovery
- Dual Diodes - Cathode Common
- Low Forward Voltage Drop
- High Surge Capability
- 100 Volts through 600 Volts Types Available



MAXIMUM RATINGS

Voltage Rating	Type	C10T60F	GCF10A60	Unit
	Symbol	C10T60F-11A	FCF10A60	
Repetitive Peak Reverse Voltage	V_{RRM}	600		V
Electrical Rating	Symbol	Condition		Rating
Average Rectified Output Current	I_o	Full rectangular wave conduction $T_c = 91^\circ C$		11
		Full sinusoidal wave conduction $T_c = 99^\circ C$		10
RMS Forward Current	$I_{F(RMS)}$			11
Peak One-cycle Forward Surge Current	I_{FSM}	50Hz full sine wave 1 cycle, non-repetitive		80
Operating Junction Temperature Range	T_{jw}			-40 to 150
Storage Temperature Range	T_{stg}			-40 to 150
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}	$I_{FM} = 5 A$ $T_j = 25^\circ C$ per diode leg	1.7	V
Peak Reverse Current	I_{RM}	$V_{RM} = V_{RRM}$ $T_j = 25^\circ C$ per diode leg	30	μA
Reverse Recovery Time	t_{rr}	$I_{FM} = 5A$ $-di/dt = 50A/\mu s$ $T_j = 25^\circ C$	40	ns
Thermal Resistance	$R_{th(j-c)}$	Junction to Case	3	$^\circ C/W$
	$R_{th(c-f)}$	Case to Fin doe (FCF10A60)	1.5	

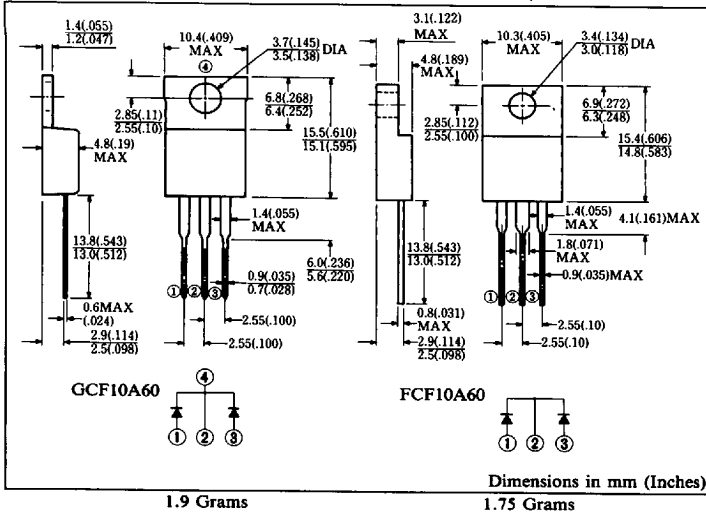


FIG.1-FORWARD CURRENT VS. VOLTAGE

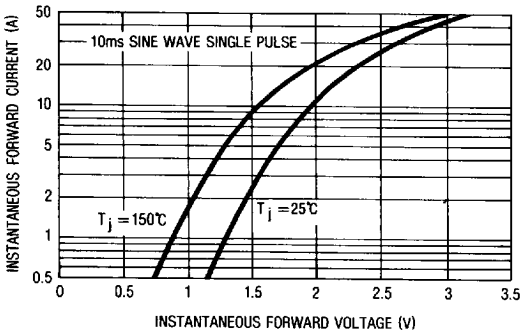


FIG.2-AVERAGE FORWARD POWER DISSIPATION

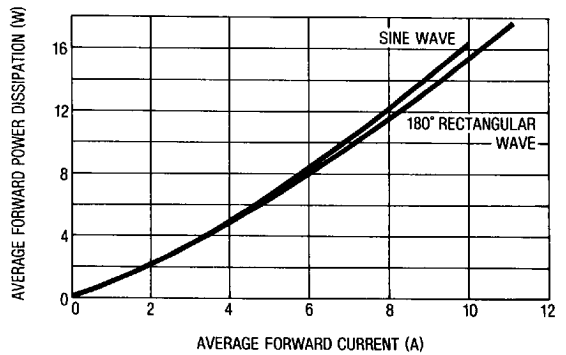


FIG.3-AVERAGE FORWARD CURRENT VS. CASE TEMPERATURE

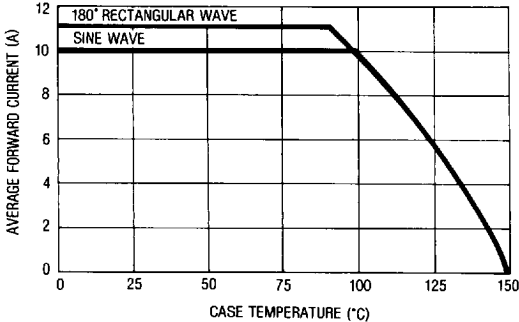
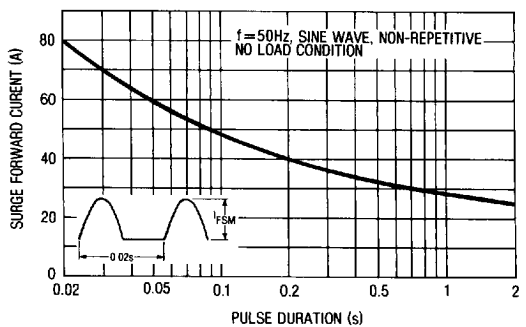


FIG.4-SURGE CURRENT RATINGS



6615123 0002238 599