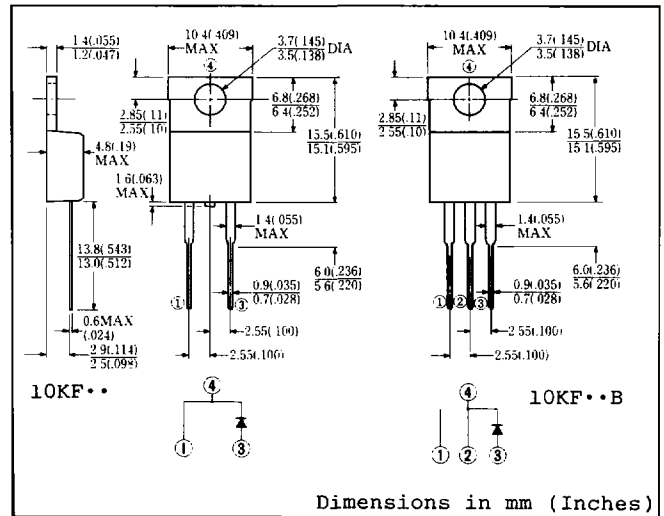


FAST RECOVERY DIODE 11A/100~200V/trr:35nsec

10KF10 F10KF10 10KF20 F10KF20
10KF10B F10KF10B 10KF20B F10KF20B

FEATURES

- Similar to TO-220AC and TO-220AB Case
- Fully Molded Isolation Case (F-Type)
- Ultra - Fast Recovery
- Low Forward Voltage Drop
- Low Power Loss, High Efficiency
- High Surge Capability
- 100 Volts thru 600 Volts Types Available



Approx. Net Weight: 1.85 Grams 1.9 Grams

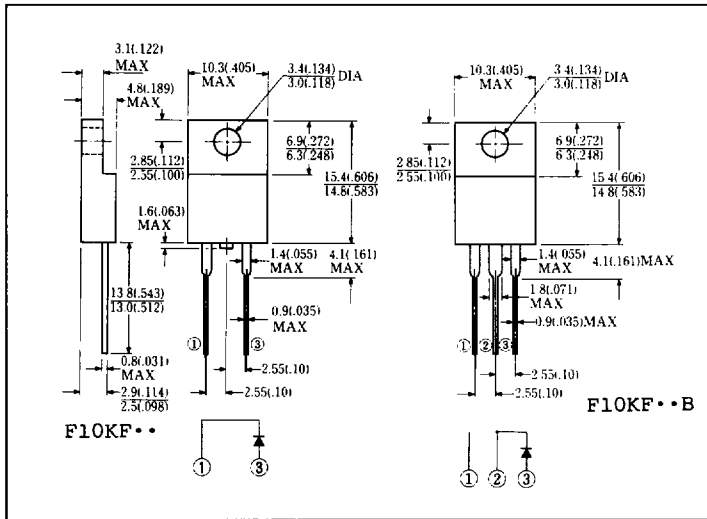
MAXIMUM RATINGS

Voltage Rating	TYPE Symbol	◆10KF10 ◆F10KF10 ◆10KF10B ◆F10KF10B	10KF20 F10KF20 10KF20B F10KF20B	Unit
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	180° rectangular wave conduction $T_C = 94^\circ\text{C}$	11	A
		180° sinusoidal wave conduction $T_C = 100^\circ\text{C}$	10	
RMS Forward Current	$I_{F(RMS)}$		15.7	A
Peak One-cycle Forward Surge Current	I_{FSM}	50Hz half sine wave, non-repetitive	120	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}	$I_{FM} = 10\text{A}$ $T_j = 25^\circ\text{C}$	1.03	V
Peak Reverse Current	I_{RM}	$V_{RM} = V_{RRM}$ $T_j = 25^\circ\text{C}$	25	μA
Reverse Recovery Time	t_{rr}	$I_{FM} = 10\text{A}$ $-di/dt = 50\text{A}/\mu\text{S}$ $T_j = 25^\circ\text{C}$	35	ns
Thermal Resistance	$R_{th(j-c)}$	Junction to Case	4	$^\circ\text{C}/\text{W}$
	$R_{th(c-f)}$	Case to Fin F10KF type	1.5	

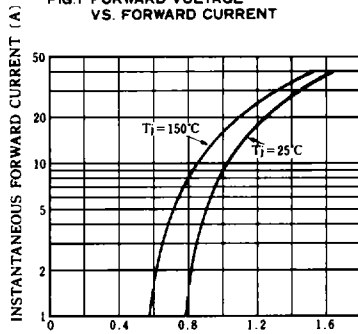
◆ For spare parts only



1.7 Grams

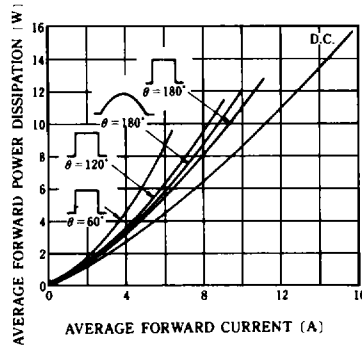
1.75 Grams

FIG.1-FORWARD VOLTAGE
VS. FORWARD CURRENT



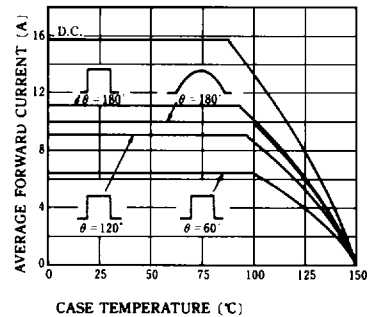
INSTANTANEOUS FORWARD VOLTAGE (V)

FIG.2-AVERAGE FORWARD POWER
DISSIPATION



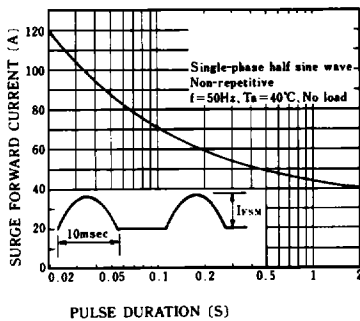
AVERAGE FORWARD CURRENT (A)

FIG.3-AVERAGE FORWARD CURRENT
VS. CASE TEMPERATURE



CASE TEMPERATURE (°C)

FIG.4-SURGE CURRENT RATINGS



PULSE DURATION (S)