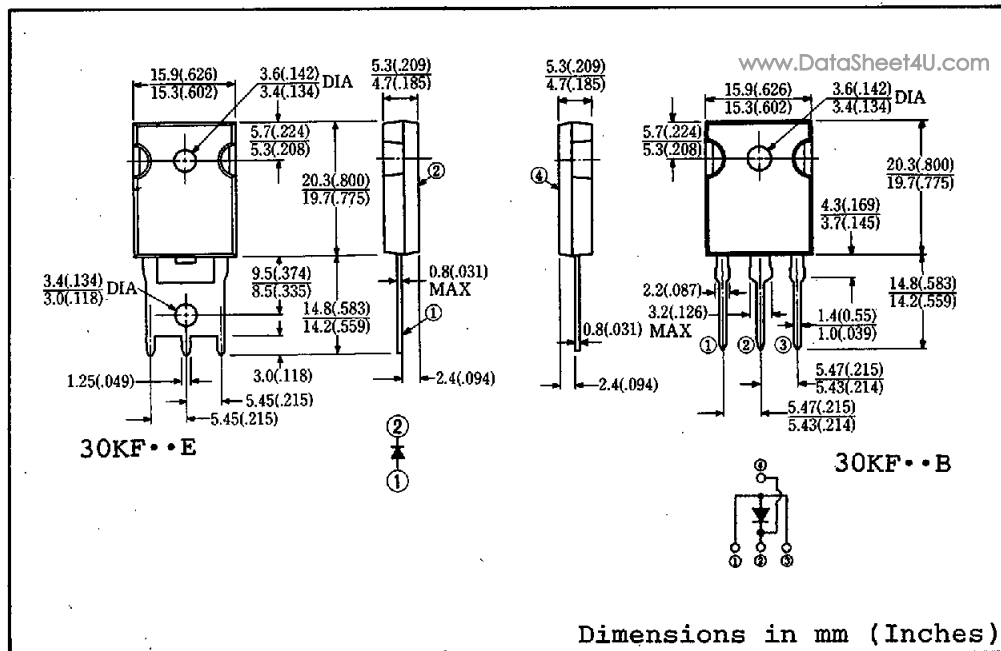


FEATURES

- Similar to TO-247AC Case
- 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: 6 Grams

5.55 Grams

MAXIMUM RATINGS

Voltage Rating	TYPE	◆ 30KF10E	30KF20E	Unit	
	Symbol	◆ 30KF10B	30KF20B		
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 $T_c = 96^\circ C$		33	A
		180° sinusoidal wave conduction $T_c = 104^\circ C$		30	
RMS Forward Current	$I_{F(RMS)}$			47	A
Peak One-cycle Forward Surge Current	I_{FSM}	50Hz half sine wave, non-repetitive		450	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}	$I_{FM} = 30A$ $T_j = 25^\circ C$	0.98	V
Peak Reverse Current	I_{RM}	$V_{RM} = V_{RRM}$ $T_j = 25^\circ C$	25	μA
Reverse Recovery Time	t_{rr}	$I_{FM} = 10A$ $-di/dt = 50A/\mu S$ $T_j = 25^\circ C$	50	ns
Thermal Resistance	$R_{th(j-c)}$	Junction to Case	1.4	°C/W

◆ For spare parts only

FIG.1-FORWARD VOLTAGE VS. FORWARD CURRENT

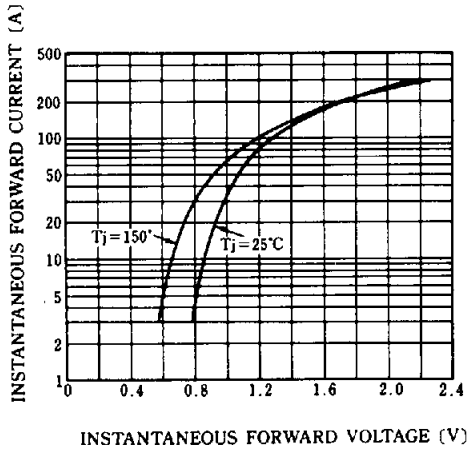


FIG.2-AVERAGE FORWARD POWER DISSIPATION

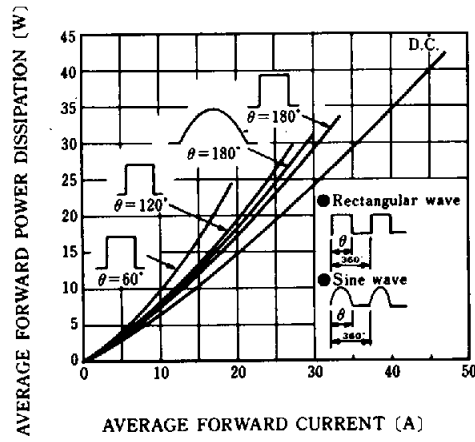


FIG.3-AVERAGE FORWARD CURRENT VS. CASE TEMPERATURE

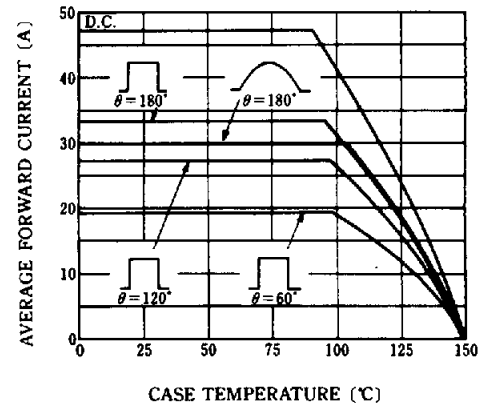


FIG.4-SURGE CURRENT RATINGS

