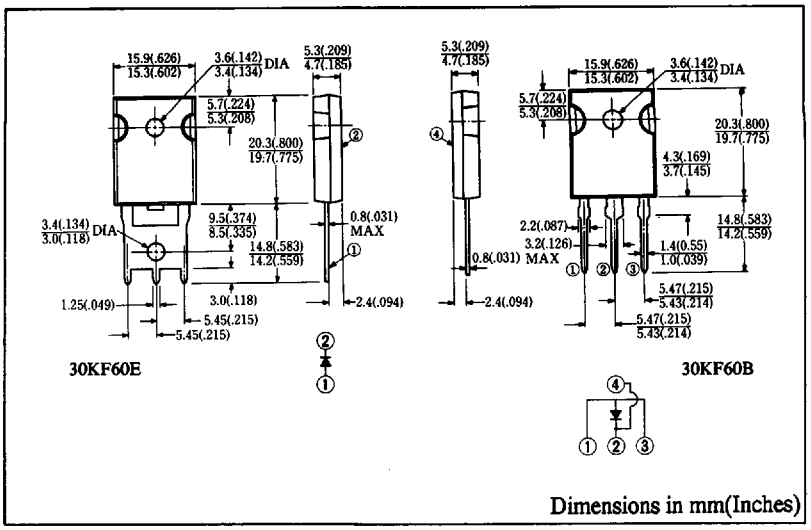
FAST RECOVERY DIODE

33A/600V/trr:60nsec

30KF60E
30KF60B

FEATURES

- Similar to TO-247AC Case
- Ultra-Fast Rcovery
- Low Forward Voltage Drop
- Low Power Loss, High Efficiency
- High Surge Capability
- 100 Volts thru 600 Volts Types Available



Approx. Net Weight : 5.55 Grams

MAXIMUM RATINGS

Voltage Rating	TYPE / Symbol	30KF60E 30KF60B		Unit
Repetitive Peak Reverse Voltage	V_{RRM}	600		V
Electrical Rating	**Symbol**	**Condition**	**Rating**	**Unit**
Average Rectified Output Current (resistive load)	I_O	180° retangular wave conduction, T_C=58℃	33	A
		180° sinusoidal wave conduction, T_C=72℃	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	Tjw		− 40 to 150	℃
Storage Temperature Range	T_{stg}		− 40 to 150	℃
Mouting 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℃	1.7	V
Peak Reverse Current	I_{RM}	V_{RM}=V_{RRM}, T_j=25℃	50	μA
Reverse Rcovery Time	t_{rr}	I_{FM}=10A, -di/dt=50A/μs, T_j=25℃	60	ns
Thermal Resistance	Rth(j-c)	Junction to Case	1.4	℃/W

FIG.1-FORWARD VOLTAGE VS. FORWARD CURRENT

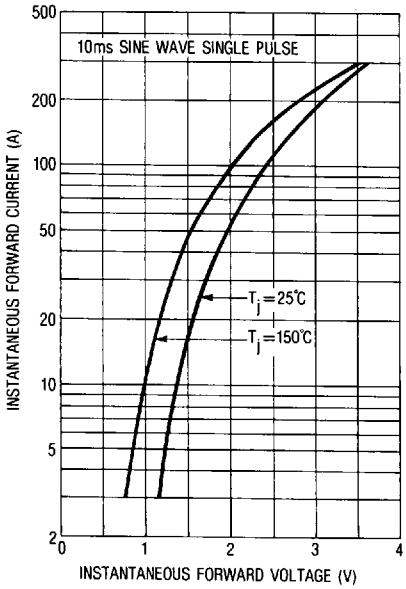


FIG.2-AVERAGE FORWARD POWER DISSIPSATION

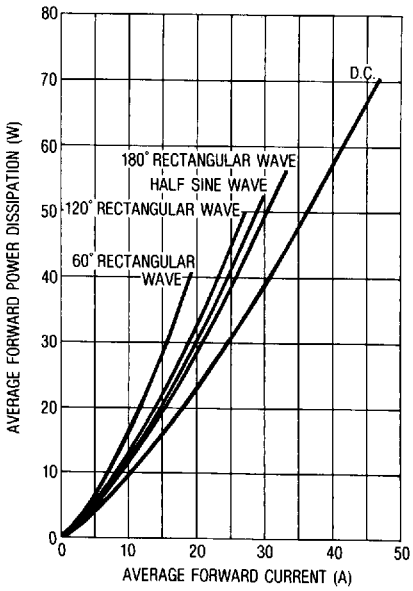


FIG.3-AVERAGE FORWARD CURRENT VS. CASE TEMPERATURE

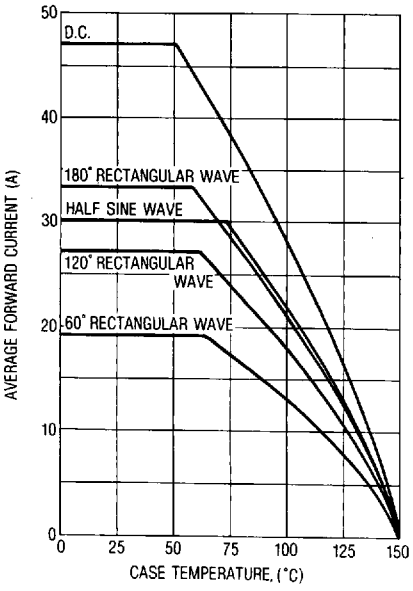
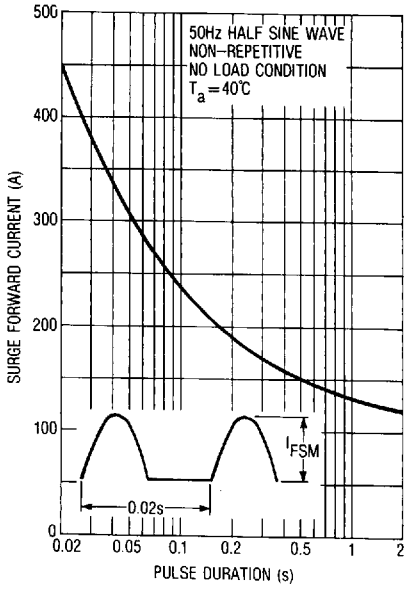


FIG.4-SURGE CURRENT RATINGS



F