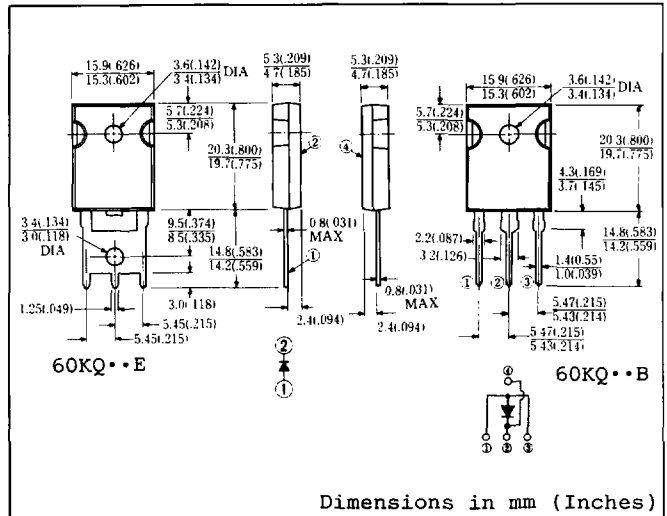


FEATURES

- Similar to TO-247AC (TO-3P) Case
- Low Forward Voltage Drop
- Low Power Loss, High Efficiency
- High Surge Current Capability
- 10 Volts thru 60 Volts Types Available



Approx. Net Weight: 6 Grams 5.55 Grams

MAXIMUM RATINGS

Voltage Rating	TYPE	60KQ30B 60KQ30E	60KQ40B 60KQ40E	Unit	
	Symbol				
Repetitive Peak Reverse Voltage	V_{RRM}	30	40	V	
Non-Repetitive Peak Reverse Voltage	V_{RSM}	35	45	V	
Electrical Rating	Symbol	Condition		Rating	Unit
Average Rectified Output Current	I_O	180° rectangular wave conduction $T_c = 75^\circ\text{C}$		66	A
		180° sinusoidal wave conduction $T_c = 87^\circ\text{C}$		60	
RMS Forward Current	$I_{F(RMS)}$			94	A
Peak One-cycle Forward Surge Current	I_{FSM}	50Hz half sine wave, non-repetitive		800	A
Operating Junction Temperature Range	T_{jw}			-40 to 125	°C
Storage Temperature Range	T_{stg}			-40 to 125	°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}	$I_{FM} = 60\text{A}$	$T_j = 25^\circ\text{C}$	0.55	V
Peak Reverse Current	I_{RM}	$V_{RM} = V_{RRM}$	$T_j = 25^\circ\text{C}$	40	mA
Thermal Resistance	$R_{th(j-c)}$	Junction to Case		0.75	°C/W

♦ For spare parts only

FIG.1-FORWARD VOLTAGE VS. FORWARD CURRENT

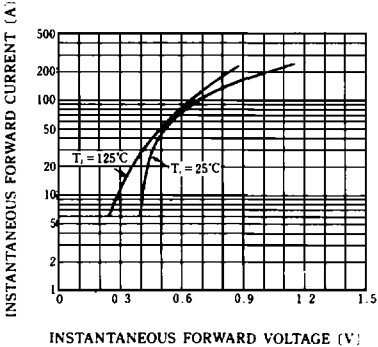


FIG.2-PEAK REVERSE CURRENT VS. PEAK REVERSE VOLTAGE

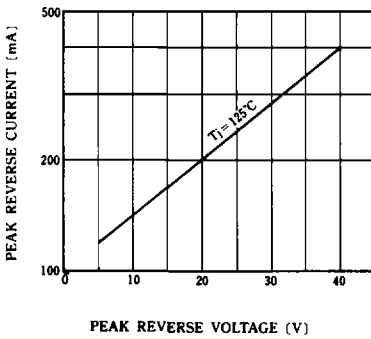


FIG.3-AVERAGE FORWARD CURRENT VS. CASE TEMPERATURE

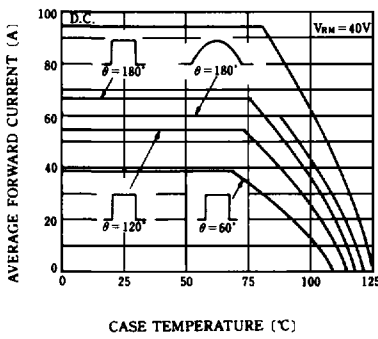


FIG.1-JUNCTION CAPACITANCE (TYPICAL) VS. REVERSE VOLTAGE

