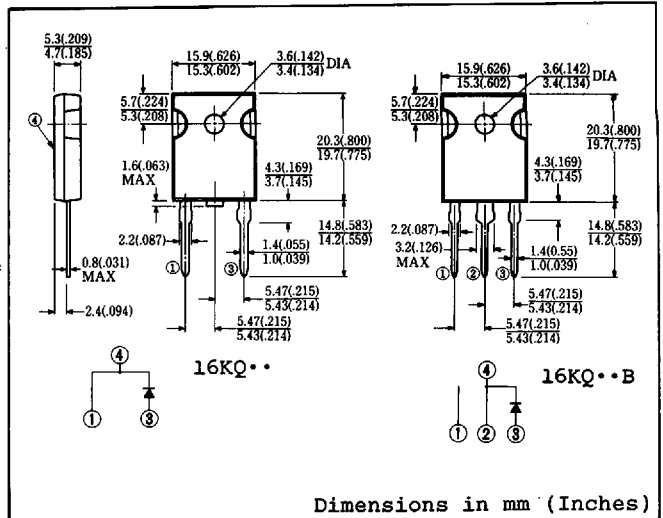


**FEATURES**

- Similar to TO-247AC (TO-3P) Case
- Low Forward Voltage Drop
- Low Power Loss, High Efficiency
- High Surge Current Capability
- 30 Volts and 100 Volts Types Available



Approx. Net Weight: 5.5 Grams    5.55 Grams

**MAXIMUM RATINGS**

Voltage Rating	TYPE	◆16KQ50	16KQ60	Unit	
	Symbol	◆16KQ50B	16KQ60B		
Repetitive Peak Reverse Voltage	$V_{RRM}$	50	60	V	
Non-Repetitive Peak Reverse Voltage	$V_{RSM}$	55	65	V	
Electrical Rating	Symbol	Condition		Rating	Unit
Average Rectified Output Current	$I_o$	180° rectangular wave conduction $T_c = 87^\circ C$		16.6	A
		180° sinusoidal wave conduction $T_c = 96^\circ C$		15.0	
RMS Forward Current	$I_{F(RMS)}$			24	A
Peak One-cycle Forward Surge Current	$I_{FSM}$	50Hz half sine wave, non-repetitive		200	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	$V_{FM}$	$I_{FM} = 15A$ $T_j = 25^\circ C$	0.65	V
Peak Reverse Current	$I_{RM}$	$V_{RM} = V_{RRM}$ $T_j = 25^\circ C$	15	mA
Thermal Resistance	$R_{th(j-c)}$	Junction to Case	2	°C/W

◆ For spare parts only

6615123 0001885 903

FIG.1-FORWARD VOLTAGE  
VS. FORWARD CURRENT

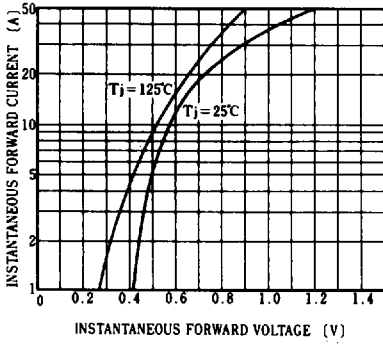


FIG.2-PEAK REVERSE CURRENT  
VS. PEAK REVERSE VOLTAGE

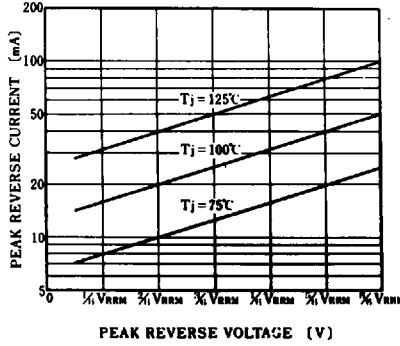


FIG.3-AVERAGE FORWARD CURRENT  
VS. CASE TEMPERATURE

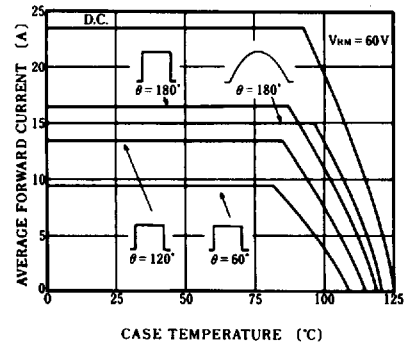


FIG.1-JUNCTION CAPACITANCE (TYPICAL)  
VS. REVERSE VOLTAGE

