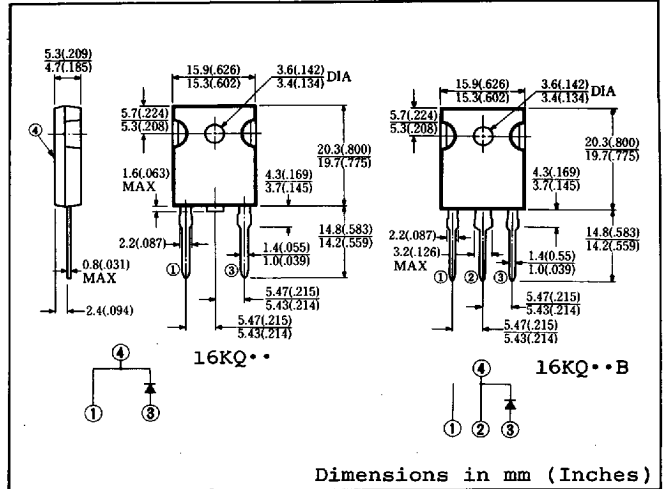


### FEATURES

- 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		Unit	
	Symbol	◆ 16KQ30 ◆ 16KQ30B		16KQ40 16KQ40B
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 $T_c = 92^\circ C$	16.6	A
		180° sinusoidal wave conduction $T_c = 100^\circ C$	15.0	
RMS Forward Current	$I_{F(RMS)}$		24	A
Peak One-cycle Forward Surge Current	$I_{FSM}$	50Hz half sine wave non-repetitive	250	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	$V_{FM}$	$I_{FM} = 15A$ $T_j = 25^\circ C$	0.56	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

FIG.1-FORWARD VOLTAGE  
VS. FORWARD CURRENT

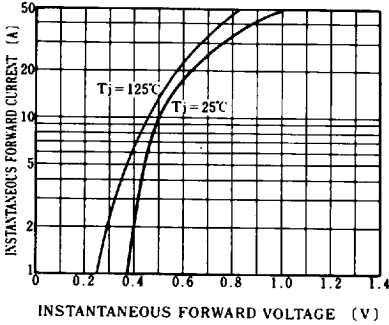


FIG.2-PEAK REVERSE CURRENT  
VS. PEAK REVERSE VOLTAGE

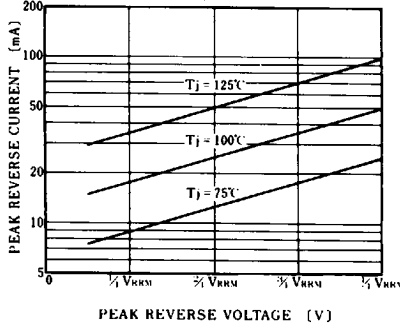


FIG.3-AVERAGE FORWARD CURRENT  
VS. CASE TEMPERATURE

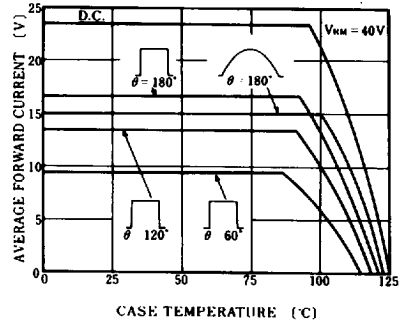
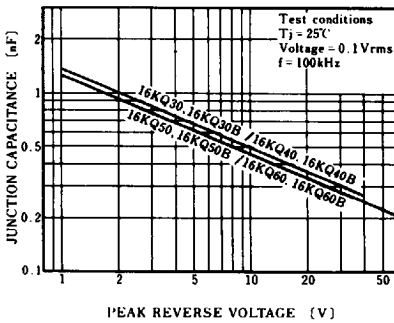


FIG.1-JUNCTION CAPACITANCE (TYPICAL)  
VS. REVERSE VOLTAGE



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