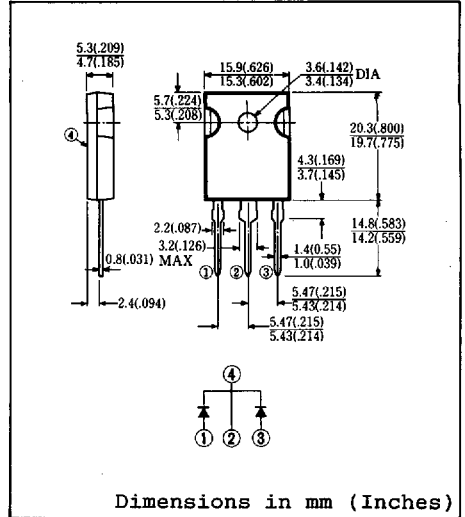


FEATURES

- Similar to TO-247AC (TO-3P) Case
- Dual Diodes - Cathode Common
- Low Forward Voltage Drop
- Low Power Loss, High Efficiency
- High Surge Capability
- 30 Volts through 100 Volts Types Available



Dimensions in mm (Inches)

Approx. Net Weight : 5.55 Grams

MAXIMUM RATINGS

Voltage Rating	TYPE	C16P09Q	C16P10Q	Unit	
	Symbol				
Repetitive Peak Reverse Voltage	V_{RRM}	90	100	V	
Non-Repetitive Peak Reverse Voltage	V_{RSM}	—	—	V	
Electrical Rating	Symbol	Condition		Rating	Unit
Average Rectified Output Current	I_O	Full rectangular wave conduction $T_C = 98^\circ C$		17.7	A
		Full sinusoidal wave conduction $T_C = 104^\circ C$		16	
RMS Forward Current	$I_{F(RMS)}$			18	A
Peak One-cycle Forward Surge Current	I_{FSM}	50Hz full sine wave, non-repetitive		180	A
Operating Junction Temperature Range	T_{jw}			-40 to 125	$^\circ C$
Storage Temperature Range	T_{stg}			-40 to 125	$^\circ C$
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}	$I_{FM} = 8A$ $T_j = 25^\circ C$ per diode leg	0.85	V
Peak Reverse Current	I_{RM}	$V_{RM} = V_{RRM}$ $T_j = 25^\circ C$ per diode leg	2	mA
Thermal Resistance	$R_{th(j-c)}$	Junction to Case	1.5	$^\circ C/W$

FIG.1-FORWARD VOLTAGE VS. FORWARD CURRENT

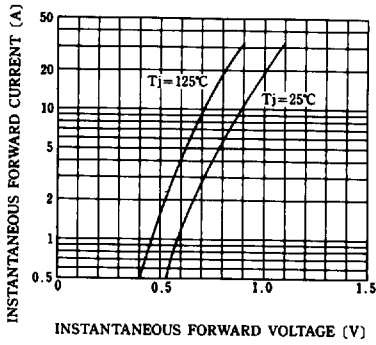


FIG.2-AVERAGE FORWARD POWER DISSIPATION

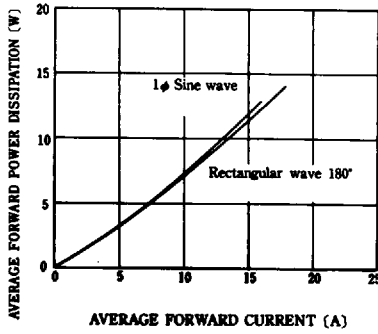


FIG.3-PEAK REVERSE CURRENT VS. PEAK REVERSE VOLTAGE

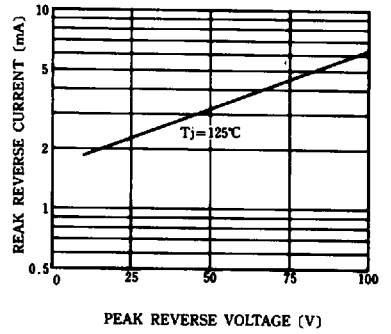


FIG.4-AVERAGE REVERSE POWER DISSIPATION

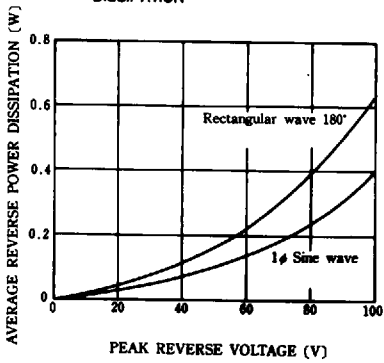


FIG.5-AVERAGE FORWARD CURRENT VS. CASE TEMPERATURE

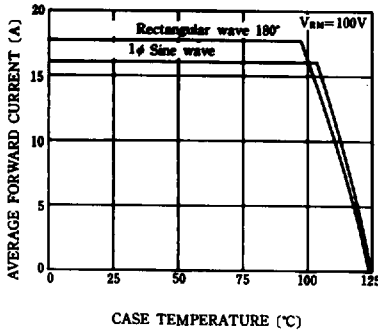


FIG.6-SURGE CURRENT RATINGS

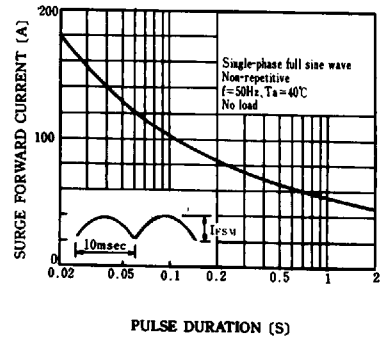


FIG.7-JUNCTION CAPACITANCE VS. REVERSE VOLTAGE

