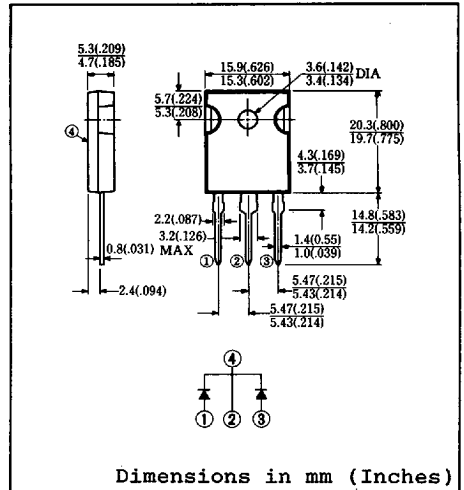


**FEATURES**

- 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



Approx. Net Weight: 5.55 Grams

**MAXIMUM RATINGS**

Voltage Rating	TYPE	C30P09Q	C30P10Q	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 $T_C = 80^\circ C$		33	A
		Full sinusoidal wave conduction $T_C = 90^\circ C$		30	
RMS Forward Current	$I_{F(RMS)}$			33	A
Peak One-cycle Forward Surge Current	$I_{FSM}$	50Hz full sine wave, non-repetitive		250	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	$V_{FM}$	$I_{FM} = 15A$ $T_j = 25^\circ C$ per diode leg	0.88	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	1.3	$^\circ C/W$

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FIG.1-FORWARD VOLTAGE VS. FORWARD CURRENT

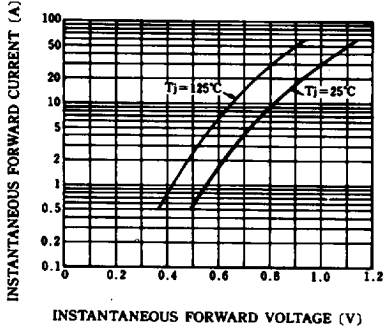


FIG.2-AVERAGE FORWARD POWER DISSIPATION

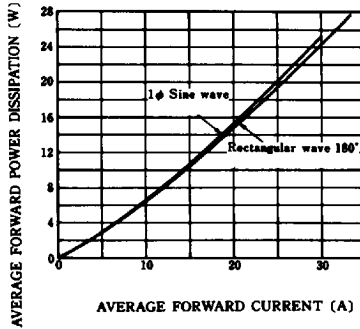


FIG.3-PEAK REVERSE CURRENT VS. PEAK REVERSE VOLTAGE

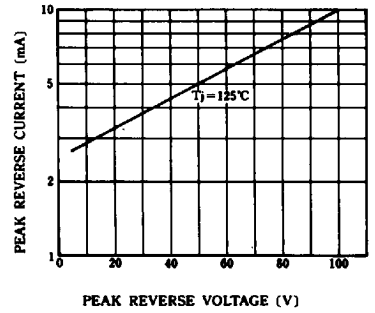


FIG.4-AVERAGE REVERSE POWER DISSIPATION

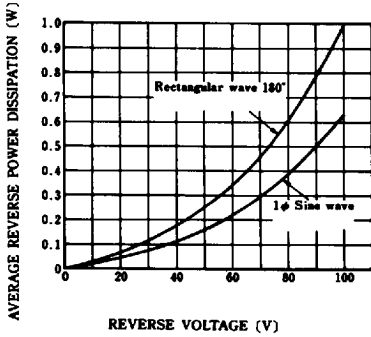


FIG.5-AVERAGE FORWARD CURRENT VS. CASE TEMPERATURE

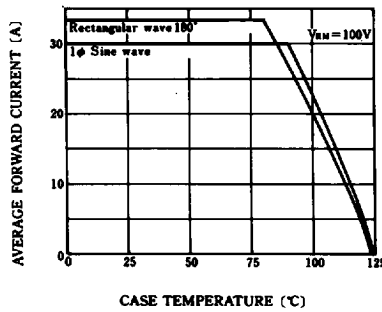


FIG.6-SURGE CURRENT RATINGS

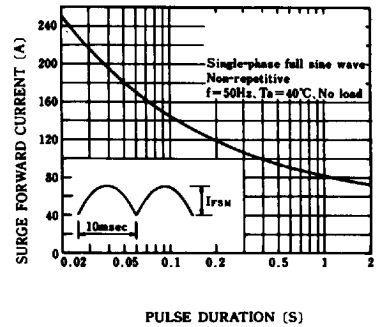
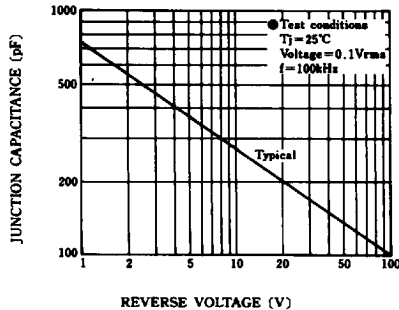


FIG.7-JUNCTION CAPACITANCE VS. REVERSE VOLTAGE



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