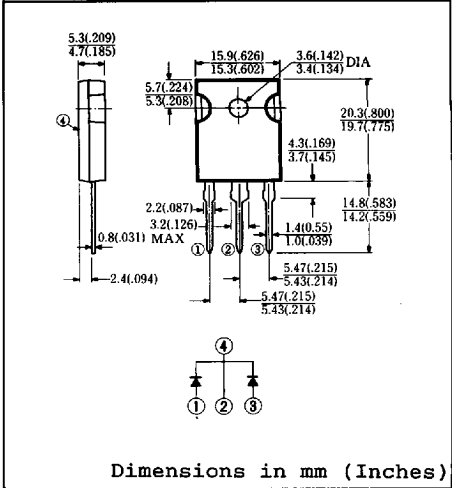


FEATURES

- 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 Symbol	◆ C16P05Q	C16P06Q	Unit
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	Full rectangular wave conduction $T_C = 96^{\circ}C$	17.7	A
		Full sinusoidal wave conduction $T_C = 103^{\circ}C$	16	
RMS Forward Current	$I_{F(RMS)}$		18	A
Peak One-cycle Forward Surge Current	I_{FSM}	50Hz full sine wave, non-repetitive	150	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	0.62	V
Peak Reverse Current	I_{RM}	$V_{RM} = V_{RRM}$ $T_j = 25^{\circ}C$ per diode leg	10	mA
Thermal Resistance	$R_{th(j-c)}$	Junction to Case	1.5	$^{\circ}C/W$

◆ For spare parts only

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FIG.1-FORWARD VOLTAGE
VS. FORWARD CURRENT

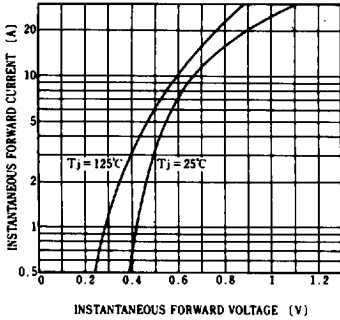


FIG.2-AVERAGE FORWARD POWER
DISSIPATION

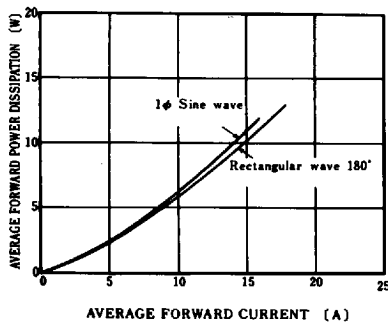


FIG.3-PEAK REVERSE CURRENT
VS. PEAK REVERSE VOLTAGE

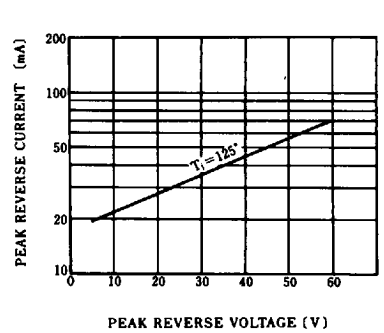


FIG.4-AVERAGE REVERSE POWER
DISSIPATION

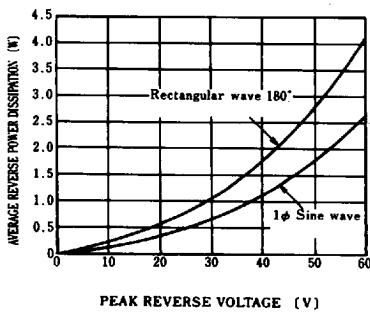


FIG.5-AVERAGE FORWARD CURRENT
VS. CASE TEMPERATURE

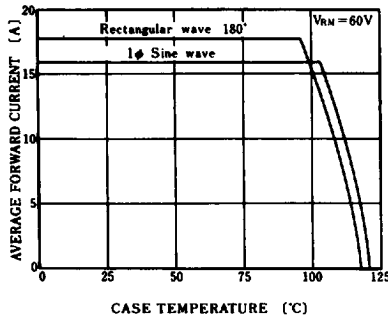


FIG.6-SURGE CURRENT RATINGS

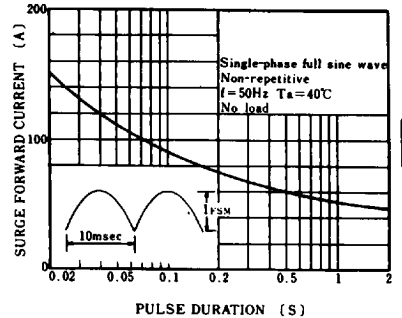
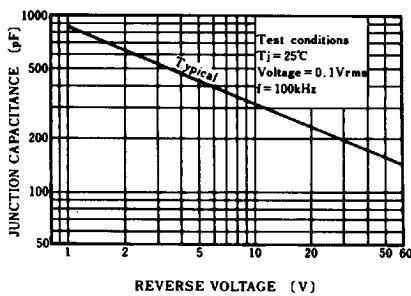


FIG.7-JUNCTION CAPACITANCE
VS. REVERSE VOLTAGE



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