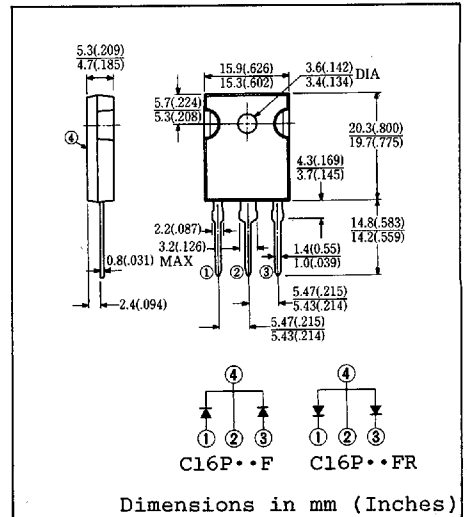


FEATURES

- Similar to TO-247AC (TO-3P) Case
- Dual Diodes - Cathode Common and Anode Common (Type - R)
- Ultra - Fast Recovery
- Low Forward Voltage Drop
- High Surge Capability
- 100 Volts thru 600 Volts Types Available



Approx. Net Weight : 5.55 Grams

MAXIMUM RATINGS

Voltage Rating	TYPE	◆C16P30F	C16P40F	Unit	
	Symbol	◆C16P30FR	C16P40FR		
Repetitive Peak Reverse Voltage	V_{RRM}	300	400	V	
Non-Repetitive Peak Reverse Voltage	V_{RSM}	330	440	V	
Electrical Rating	Symbol	Condition		Rating	Unit
Average Rectified Output Current	I_O	Full rectangular wave conduction $T_C = 101^\circ\text{C}$		17.7	A
		Full sinusoidal wave conduction $T_C = 109^\circ\text{C}$		16	
RMS Forward Current	$I_{F(RMS)}$			18	A
Peak One-cycle Forward Surge Current	I_{FSM}	50Hz full sine wave, non-repetitive		120	A
Operating Junction Temperature Range	T_{jw}			-40 to 150	$^\circ\text{C}$
Storage Temperature Range	T_{stg}			-40 to 150	$^\circ\text{C}$
Mounting Torque	F_{tor}	Recommended torque		0.5 (5.1)	$\frac{\text{N}\cdot\text{m}}{(\text{kgf}\cdot\text{cm})}$

ELECTRICAL & THERMAL CHARACTERISTICS

Characteristics	Symbol	Test Condition	Max.	Unit
Peak Forward Voltage	V_{FM}	$I_{FM} = 8\text{A}$ $T_j = 25^\circ\text{C}$ per diode leg	1.25	V
Peak Reverse Current	I_{RM}	$V_{RM} = V_{RRM}$ $T_j = 25^\circ\text{C}$ per diode leg	30	μA
Reverse Recovery Time	t_{rr}	$I_{FM} = 8\text{A}$ $-\text{di}/\text{dt} = 50\text{A}/\mu\text{s}$ $T_j = 25^\circ\text{C}$	45	ns
Thermal Resistance	$R_{th(j-c)}$	Junction to Case	2	$^\circ\text{C}/\text{W}$

◆ For spare parts only

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FIG.1-FORWARD VOLTAGE
VS. FORWARD CURRENT

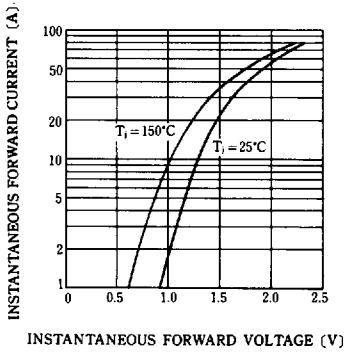


FIG.2-AVERAGE FORWARD
POWER DISSIPATION

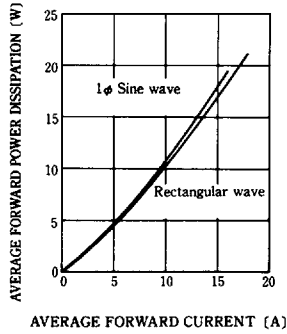


FIG.3-AVERAGE FORWARD CURRENT
VS. CASE TEMPERATURE

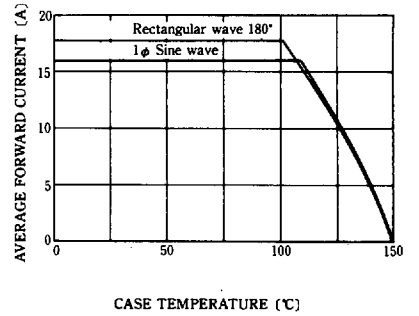
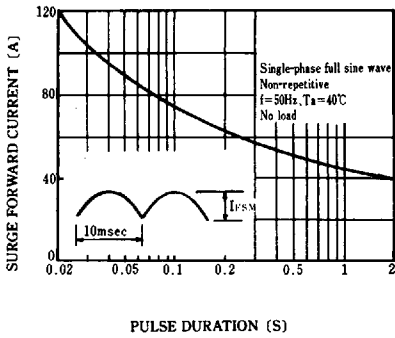


FIG.4-SURGE CURRENT RATINGS



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