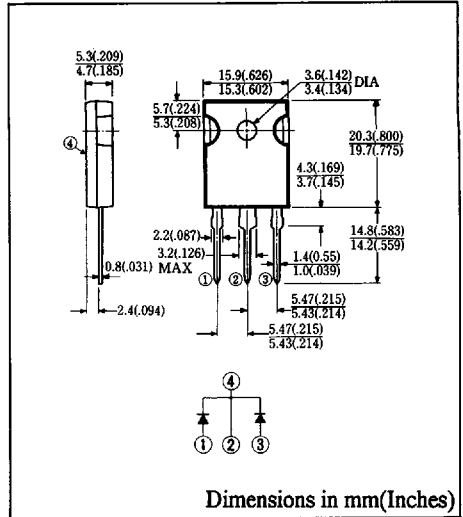


FEATURES

- Similar to TO-247AC Case
- Dual Diodes- Cathode Common
- Ultra - Fast Recovery
- Low Forward Voltage Drop
- Low Power Loss, High Efficiency
- High Surge Capability
- 100 Volts thru 600 Volts Types Available



Approx. Net Weight : 5.55 Grams

MAXIMUM RATINGS

Voltage Rating	TYPE Symbol	KCF16A50		Unit
Repetitive Peak Reverse Voltage	V_{RRM}	500		V
Electrical Rating	Symbol	Condition	Rating	Unit
Average Rectified Output Current (resistive load)	I_O	Full rectangular wave conduction, $T_C=95^\circ\text{C}$	17.7	A
		Full sinusoidal wave conduction, $T_C=104^\circ\text{C}$	16	
RMS Forward Current	I_F (RMS)		18	A
Peak One-cycle Forward Surge Current	I_{FSM}		120	A
Operating Junction Temperature Range	T_{jw}	50Hz full sine wave, non-repetitive	- 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)	N•m (kgf•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	1.4	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}	$I_{FM}=8\text{A}$, $-di/dt=50\text{A}/\mu\text{s}$, $T_j=25^\circ\text{C}$ per diode leg	55	ns
Thermal Resistance	$R_{th(j-c)}$	Junction to Case	2	$^\circ\text{C}/\text{W}$

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FIG. 1-FORWARD VOLTAGE VS. FORWARD CURRENT

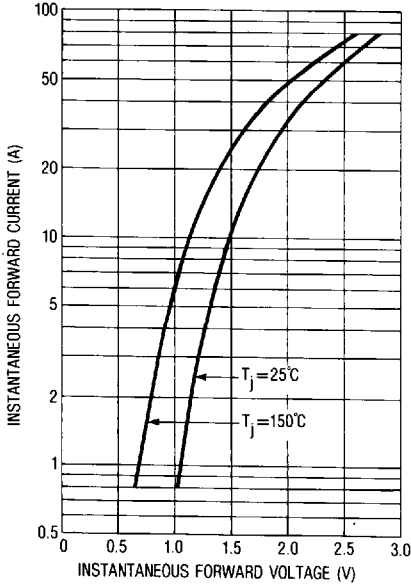


FIG. 2-AVERAGE FORWARD POWER DISSIPATION

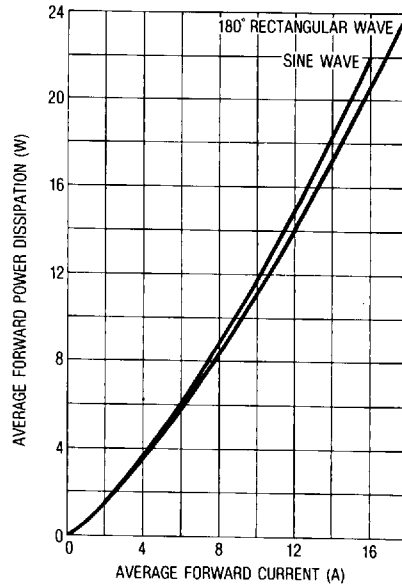


FIG. 3-AVERAGE FORWARD CURRENT VS. CASE TEMPERATURE

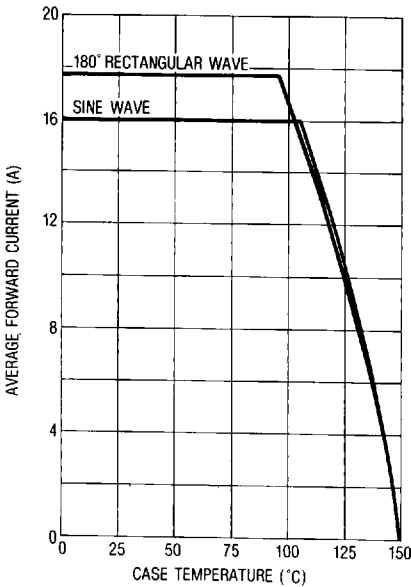


FIG. 4-SURGE CURRENT RATINGS

