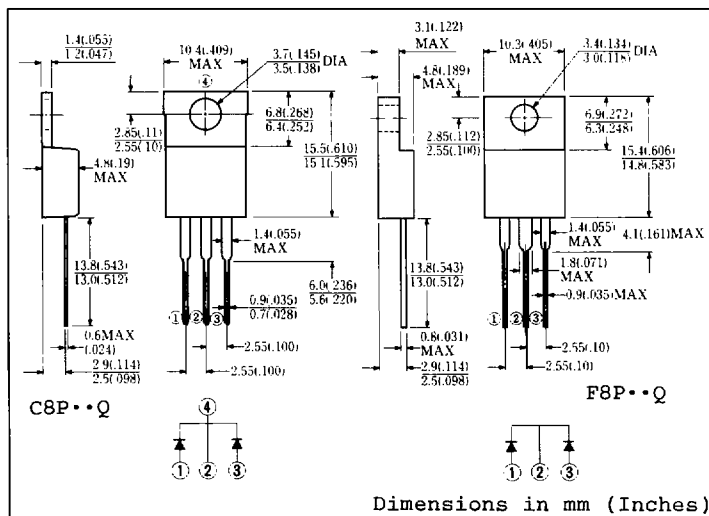


FEATURES

- Similar to TO-220AB Case
- Fully Molded Isolation (F-Type)
- Dual Diodes - Cathode Common
- Low Forward Voltage Drop
- Low Power Loss, High Efficiency
- High Surge Capability
- 30 Volts through 60 Volts Types Available



Approx. Net Weight: 1.9 Grams 1.75 Grams

MAXIMUM RATINGS

Voltage Rating	TYPE		Unit	
	Symbol	◆ C8P03Q ◆ F8P03Q		C8P04Q F8P04Q
Repetitive Peak Reverse Voltage	V_{RRM}	30	40	V
Non-Repetitive Peak Reverse Voltage	V_{RSM}	35	45	V
Electrical Rating	Symbol	Condition	Rating	Unit
Average Rectified Output Current	I_O	Full rectangular wave conduction $T_C = 102^\circ\text{C}$	8.9	A
		Full sinusoidal wave conduction $T_C = 106^\circ\text{C}$	8.0	
RMS Forward Current	$I_{F(RMS)}$		8.9	A
Peak One-cycle Forward Surge Current	I_{FSM}	50Hz full sine wave, non-repetitive	100	A
Operating Junction Temperature Range	T_{jw}		-40 to 125	$^\circ\text{C}$
Storage Temperature Range	T_{stg}		-40 to 125	$^\circ\text{C}$
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}	$I_{FM} = 4\text{A}$ $T_j = 25^\circ\text{C}$ per diode leg	0.55	V
Peak Reverse Current	I_{RM}	$V_{RM} = V_{RRM}$ $T_j = 25^\circ\text{C}$ per diode leg	3	mA
Thermal Resistance	$R_{th(j-c)}$	Junction to Case	3	$^\circ\text{C/W}$
	$R_{th(c-f)}$	Case to Fin for F8P Type	1.5	

◆ For spare parts only

FIG.1-FORWARD VOLTAGE VS. FORWARD CURRENT

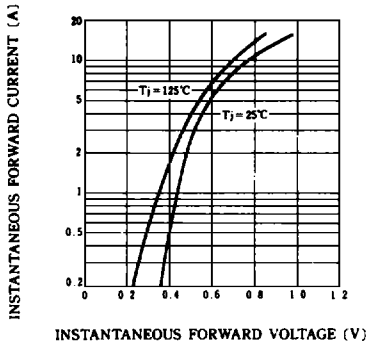


FIG.2-AVERAGE FORWARD POWER DISSIPATION

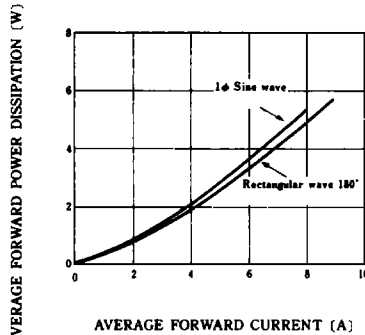


FIG.3-PEAK REVERSE CURRENT VS. PEAK REVERSE VOLTAGE

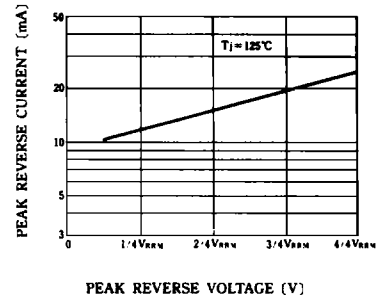


FIG.4-AVERAGE REVERSE POWER DISSIPATION

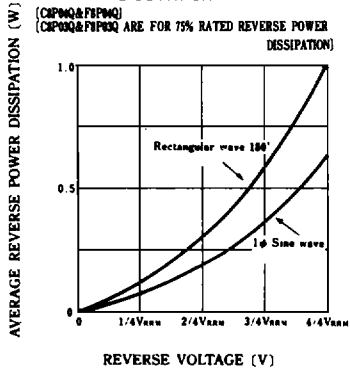


FIG.5-AVERAGE FORWARD CURRENT VS. CASE TEMPERATURE

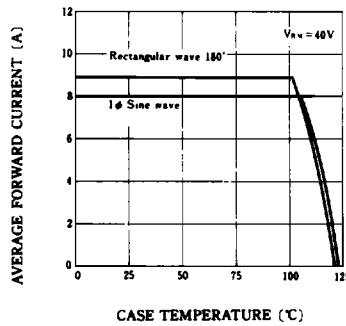


FIG.6-SURGE CURRENT RATINGS

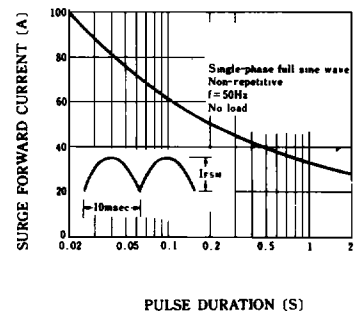


FIG.7-JUNCTION CAPACITANCE VS. REVERSE VOLTAGE

