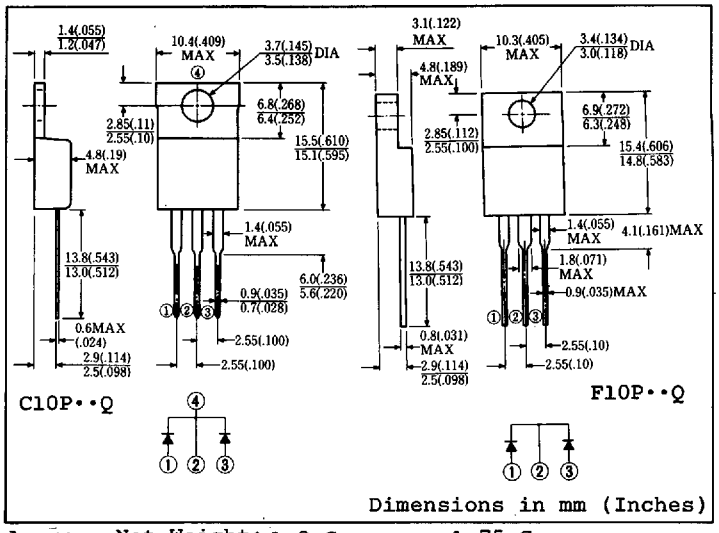
SCHOTTKY BARRIER DIODE

11A/30~40V

C10P03Q C10P04Q
F10P03Q F10P04Q

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
- 20 Volts thru 100 Volts Types Available



Approx. Net Weight: 1.9 Grams 1.75 Grams

MAXIMUM RATINGS

Voltage Rating	TYPE / Symbol	◆C10P03Q ◆F10P03Q	C10P04Q F10P04Q	Unit
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 = 95°C	11	A
		Full sinusoidal wave conduction T_C = 100°C	10	
RMS Forward Current	$I_{F(RMS)}$		11	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 125	°C
Storage Temperature Range	T_{stg}		-40 to 125	°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} = 5A T_j = 25°C per diode leg	0.55	V
Peak Reverse Current	I_{RM}	V_{RM} = V_{RRM} T_j = 25°C per diode leg	5	mA
Thermal Resistance	$R_{th(j-c)}$	Junction to Case	3	°C/W
	$R_{th(c-f)}$	Case to Fin for F10P..Q Type	1.5	

◆For spare parts only

FIG.1-FORWARD VOLTAGE VS. FORWARD CURRENT

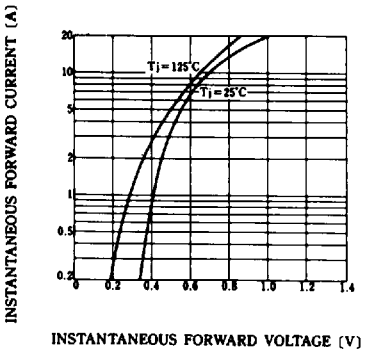


FIG.2-AVERAGE FORWARD POWER DISSIPATION

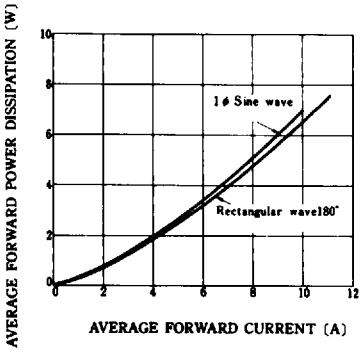


FIG.3-PEAK REVERSE CURRENT VS. PEAK REVERSE VOLTAGE

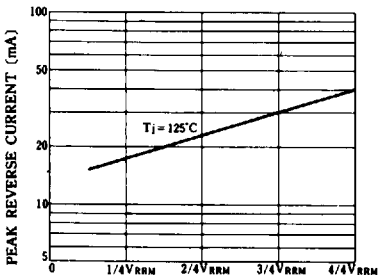


FIG.4-AVERAGE REVERSE POWER DISSIPATION

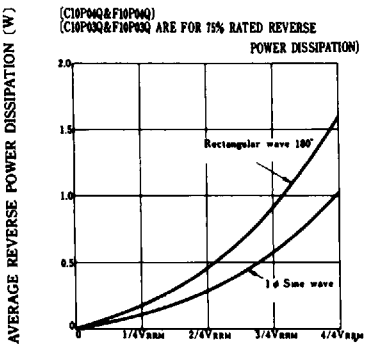


FIG.5-AVERAGE FORWARD CURRENT VS. CASE TEMPERATURE

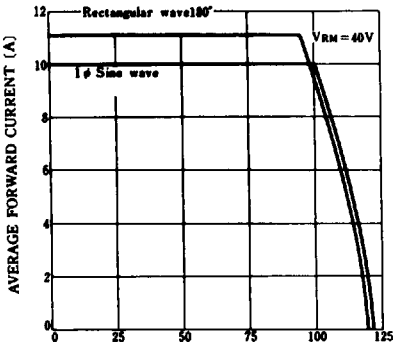


FIG.6-SURGE CURRENT RATINGS

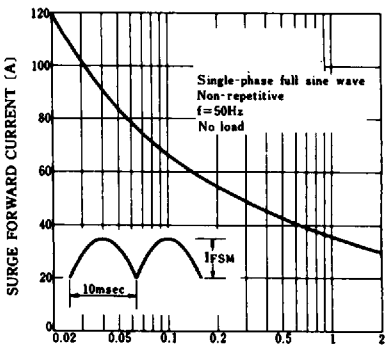
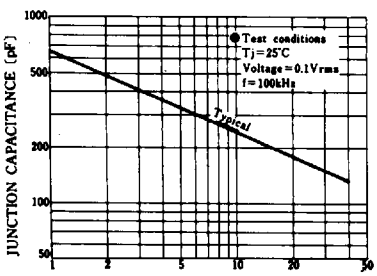


FIG.7-JUNCTION CAPACITANCE VS. REVERSE VOLTAGE



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