

4VQ09CT 4VQ10CT
4VQ09CTF 4VQ10CTF

Dimensions in mm (Inches)

0.3 Grams

Voltage Rating	TYPE Symbol	◆ 4VQ09CT ◆ 4VQ09CTF	4VQ10CT 4VQ10CTF	Unit	
Repetitive Peak Reverse Voltage	V _{RRM}	90	100	V	
Non-Repetitive Peak Reverse Voltage	V _{RSM}	---	---	V	
Electrical Rating	Symbol	Condition		Rating	Unit
Average Rectified Output Current	I _O	Full rectangular wave conduction	T _C = 102°C	4.4	A
			T _C = 105°C	4.0	
		Full sinusoidal wave conduction	PCB mounted * T _a = 28°C	1.6	
RMS Forward Current	I _{F(RMS)}			4.44	A
Peak One-cycle Forward Surge Current	I _{FSM}	50Hz full sine wave, non-repetitive		40	A
Operating Junction Temperature Range	T _{jw}			-40 to 125	°C
Storage Temperature Range	T _{stg}			-40 to 125	°C

Characteristics	Symbol	Test Condition	Max.	Unit
Peak Forward Voltage	V_{FM}	$I_{FM} = 2A$ $T_j = 25^\circ C$ per diode leg	0.85	V
Peak Reverse Current	I_{RM}	$V_{RM} = V_{RRM}$ $T_j = 25^\circ C$ per diode leg	1.0	mA
Thermal Resistance	$R_{th(j-a)}$	Junction to Ambient, P.C.B. mounted*	80	$^\circ C/W$
	$R_{th(j-c)}$	Junction to Case	5.5	

◆For spare parts only

FIG.1-FORWARD VOLTAGE
VS. FORWARD CURRENT

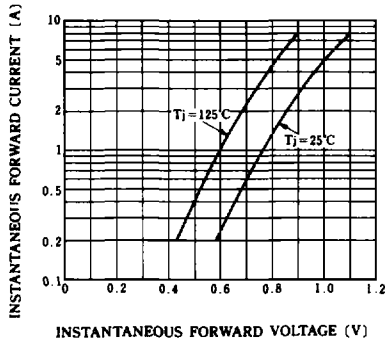


FIG.2-AVERAGE FORWARD POWER
DISSIPATION

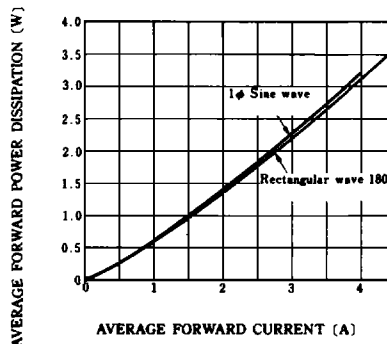


FIG.3-PEAK REVERSE CURRENT
VS. PEAK REVERSE VOLTAGE

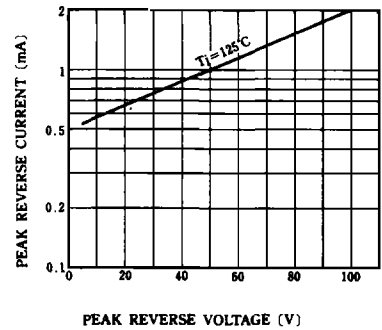


FIG.4-AVERAGE REVERSE POWER
DISSIPATION

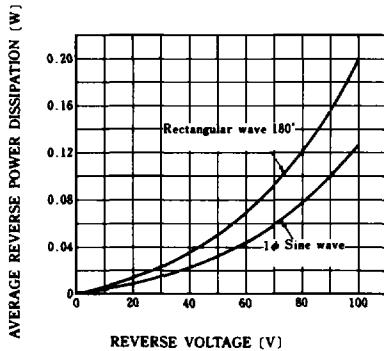


FIG.5-AVERAGE FORWARD CURRENT
VS. AMBIENT TEMPERATURE

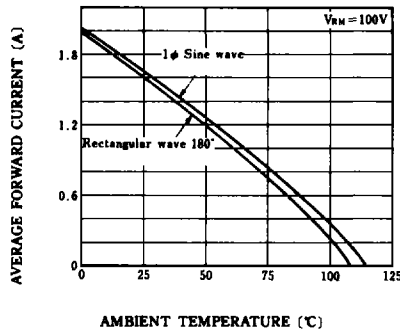


FIG.6-AVERAGE FORWARD CURRENT
VS. CASE TEMPERATURE

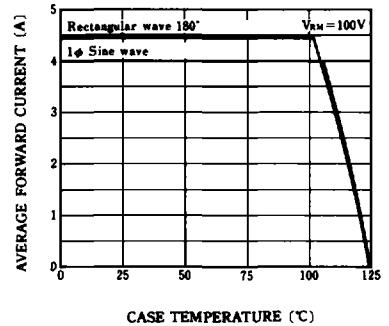


FIG.7-SURGE CURRENT RATINGS

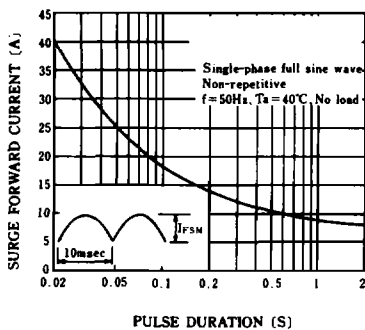


FIG.8-JUNCTION CAPACITANCE
VS. REVERSE VOLTAGE

