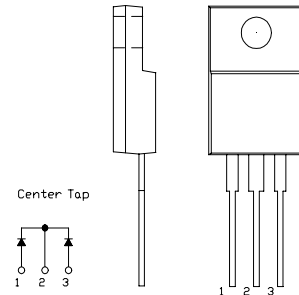


SBD Type : FCQ10A06

OUTLINE DRAWING

FEATURES

- *Similar to TO-220AB Case
- *Fully Molded Isolation
- *Dual Diodes – Cathode Common
- *Low Forward Voltage Drop
- *Low Power Loss, High Efficiency
- *High Surge Capability
- *T_j=150 °C operation
- *Wire-Bonded technology



Maximum Ratings

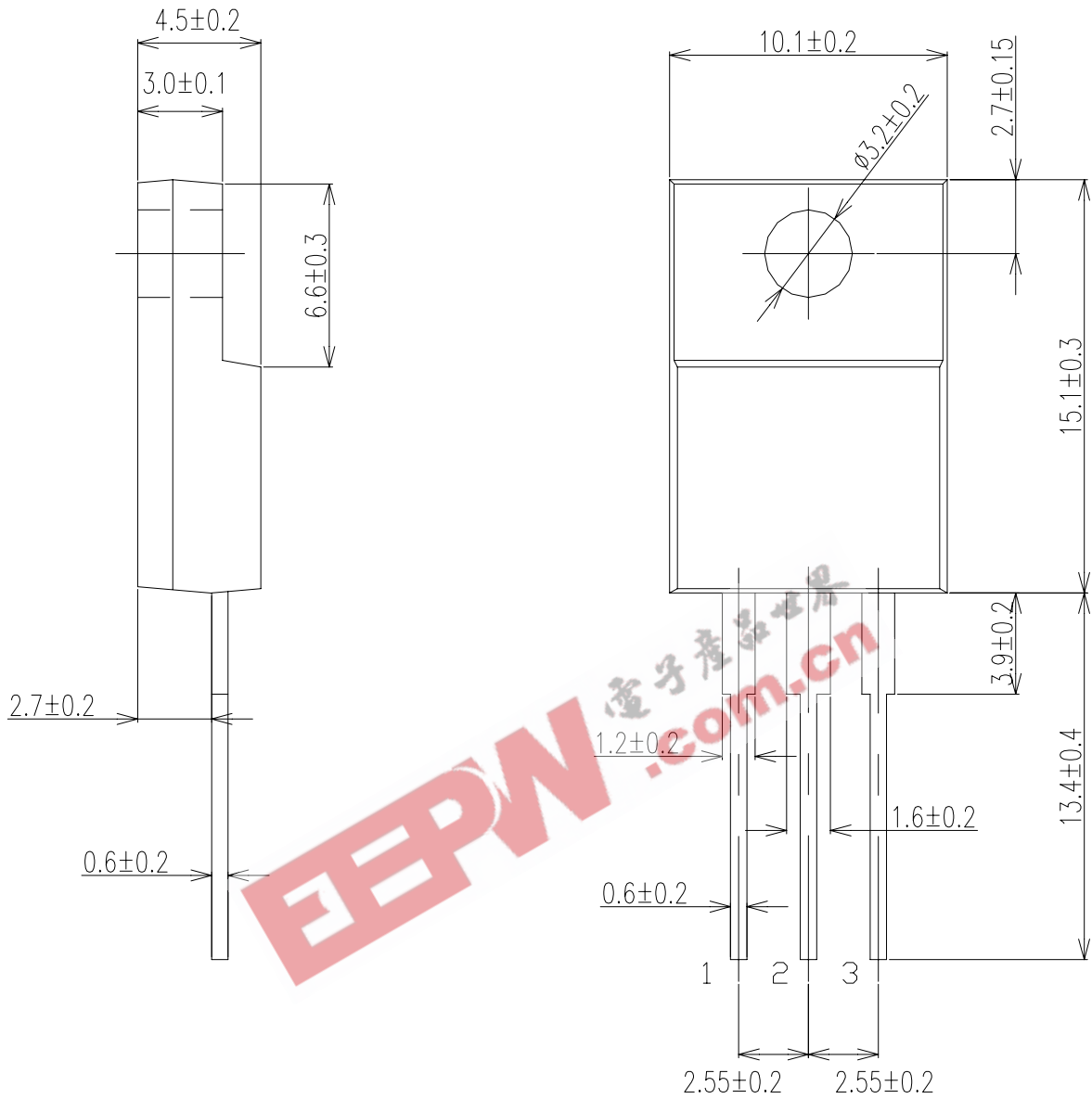
Approx Net Weight: 1.75g

Rating	Symbol	FCQ10A06		Unit
Repetitive Peak Reverse Voltage	V _{RRM}	60		V
Non-repetitive Peak Reverse Voltage	V _{RSM}	65		V
Average Rectified Output Current	I _O	10	T _c =108°C 50 Hz Full Sine Wave Resistive Load	A
RMS Forward Current	I _{F(RMS)}	11.1		A
Surge Forward Current	I _{FSM}	110	50Hz Full Sine Wave ,1cycle Non-repetitive	A
Operating Junction Temperature Range	T _{jw}	-40 to +150		°C
Storage Temperature Range	T _{stg}	-40 to +150		°C
Mounting torque	F _{tor}	recommended torque = 0.5		N•m

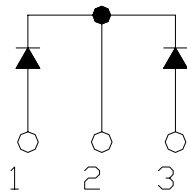
Electrical • Thermal Characteristics

Characteristics	Symbol	Conditions	Min.	Typ.	Max.	Unit
Peak Reverse Current	I _{RM}	T _j = 25°C, V _{RM} = V _{RRM} per arm	-	-	5	mA
Peak Forward Voltage	V _{FM}	T _j = 25°C, I _{FM} = 5 A per arm	-	-	0.58	V
Thermal Resistance	R _{th(j-c)}	Junction to Case	-	-	3	°C/W
	R _{th(c-f)}	Case to Fin	-	-	1.5	°C/W

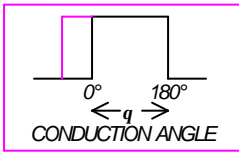
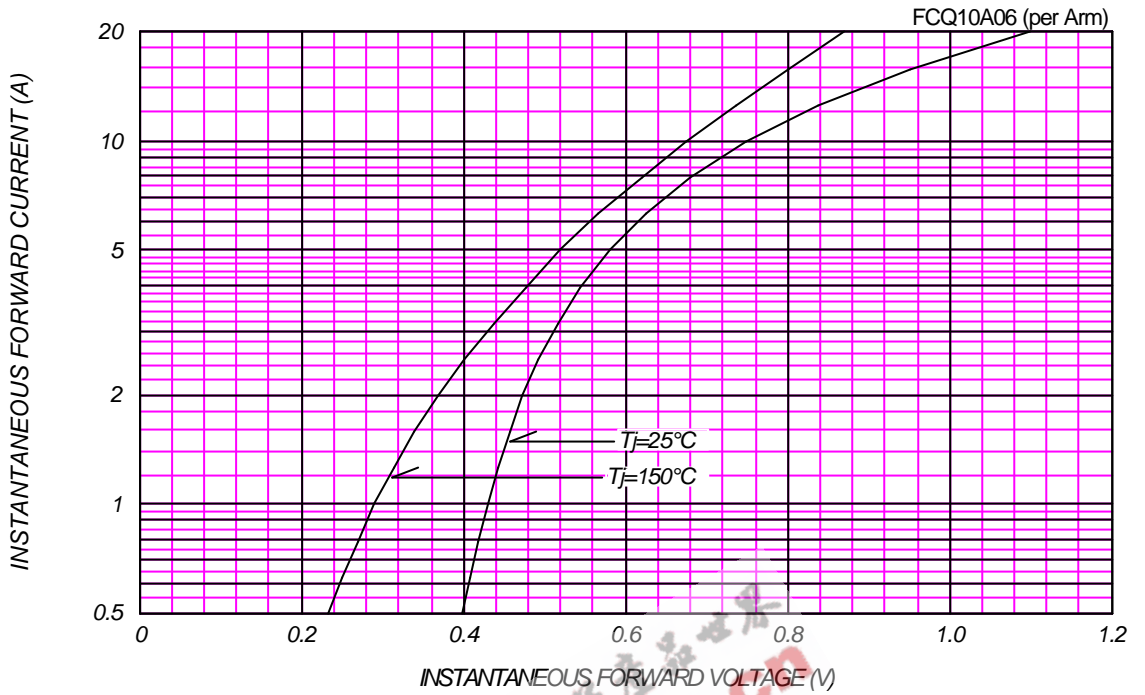
FCQ_A_ OUTLINE DRAWING (Dimensions in mm)



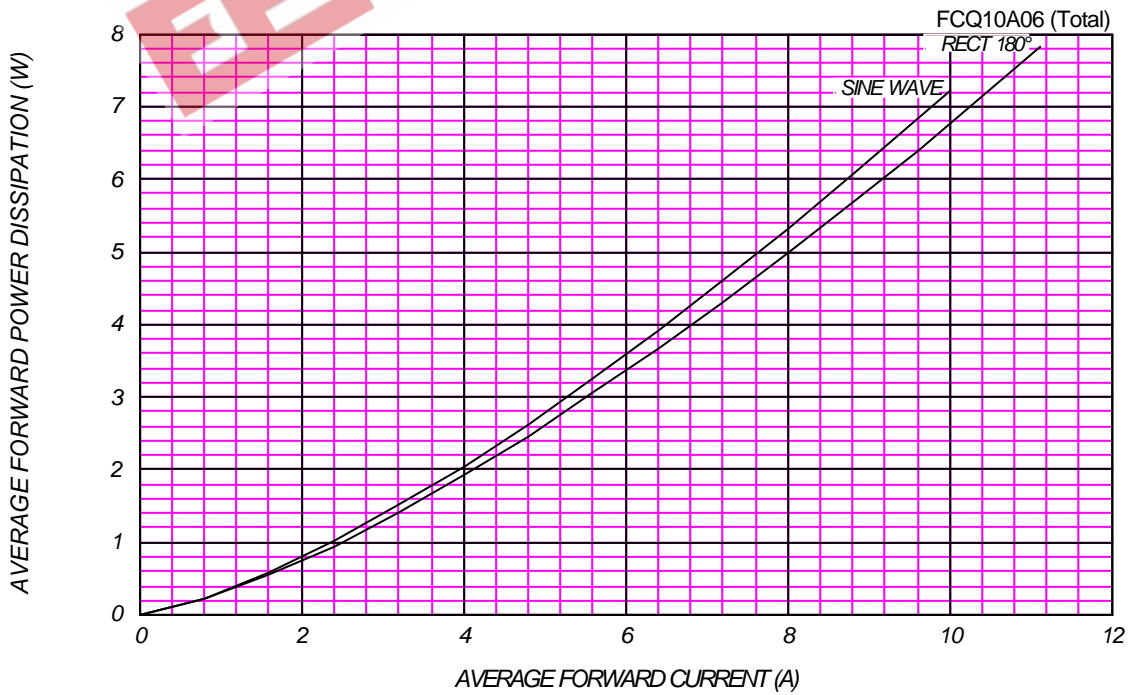
Center Tap



FORWARD CURRENT VS. VOLTAGE



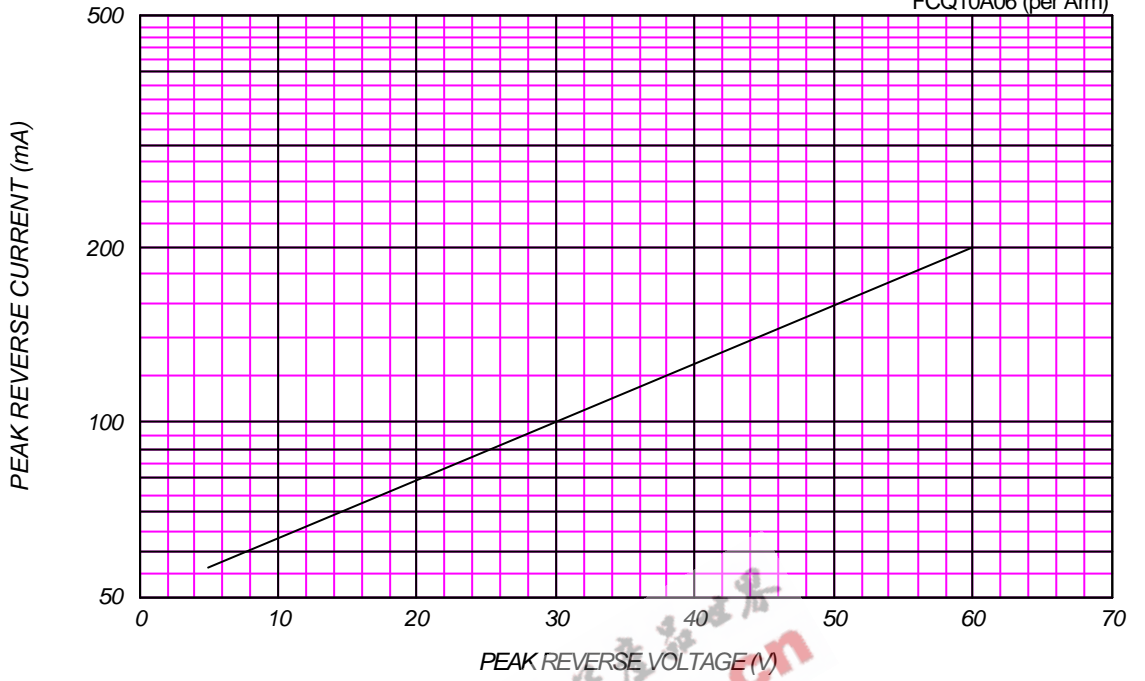
AVERAGE FORWARD POWER DISSIPATION



PEAK REVERSE CURRENT VS. PEAK REVERSE VOLTAGE

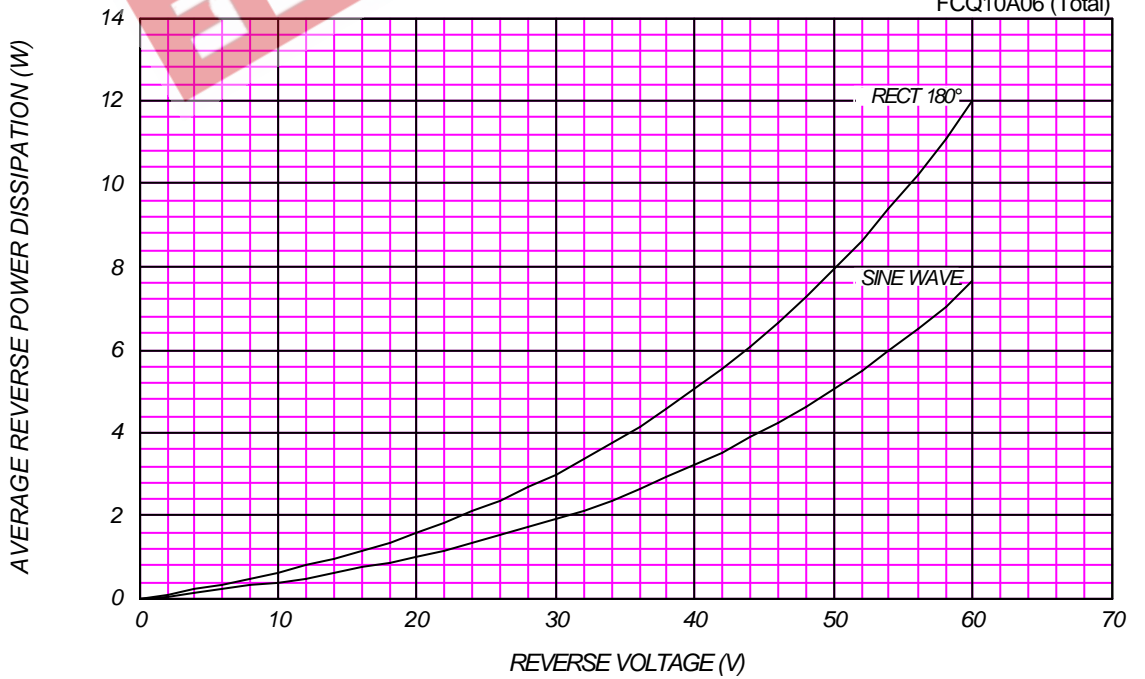
T_j = 150 °C

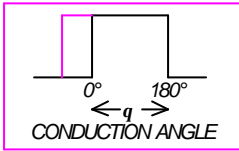
FCQ10A06 (per Arm)



AVERAGE REVERSE POWER DISSIPATION

FCQ10A06 (Total)

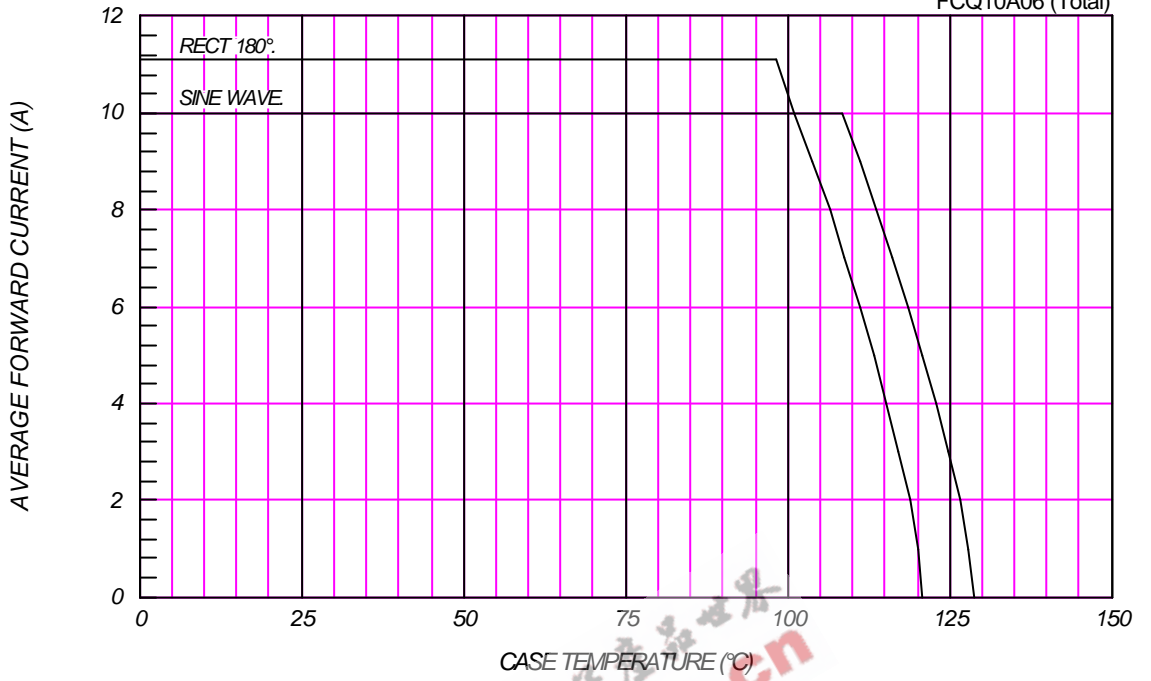




AVERAGE FORWARD CURRENT VS. CASE TEMPERATURE

$V_{RM}=60\text{ V}$

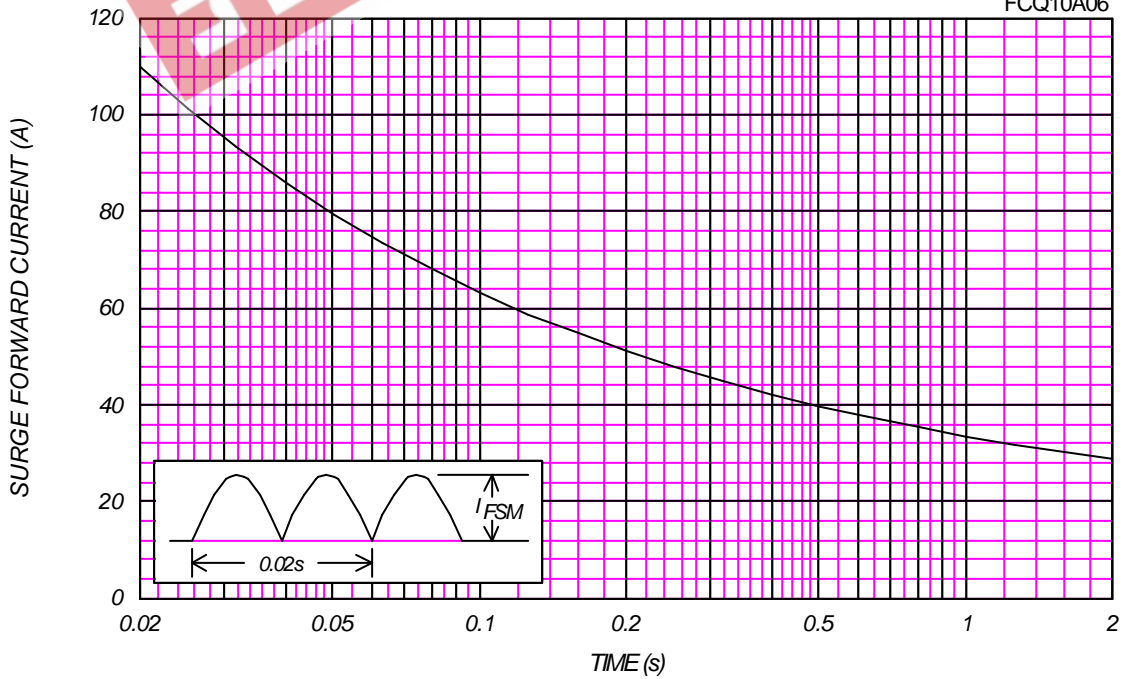
FCQ10A06 (Total)



SURGE CURRENT RATINGS

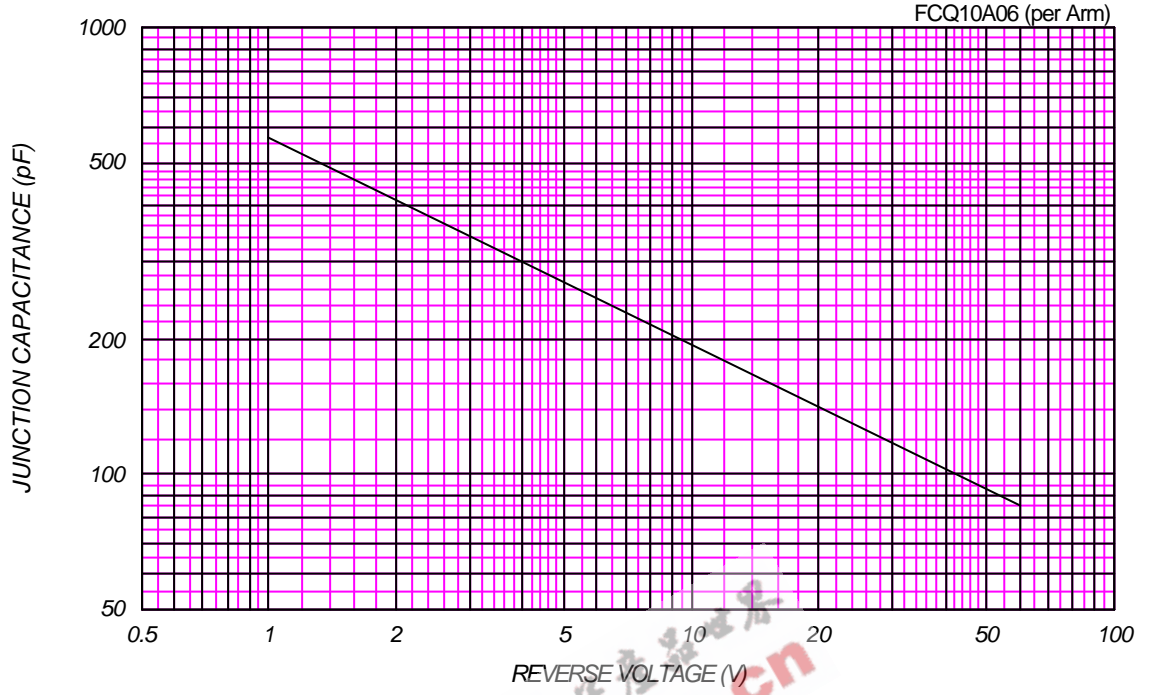
$f=50\text{ Hz}$, Sine Wave, Non-Repetitive, No Load

FCQ10A06



JUNCTION CAPACITANCE VS. REVERSE VOLTAGE

$T_j=25^\circ\text{C}$, $V_m=20\text{mV}_{\text{RMS}}$, $f=100\text{kHz}$, Typical Value



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