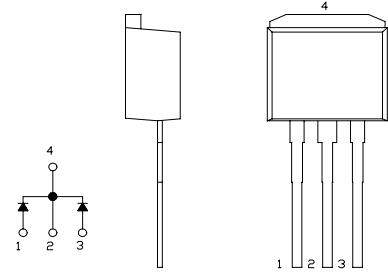


SBD Type : C30T10Q-11A

OUTLINE DRAWING

FEATURES

- *Tabless TO-220
- *Dual Diodes – Cathode Common
- *Low Forward Voltage Drop
- *High Surge Capability
- *T_j=150 °C operation


Maximum Ratings

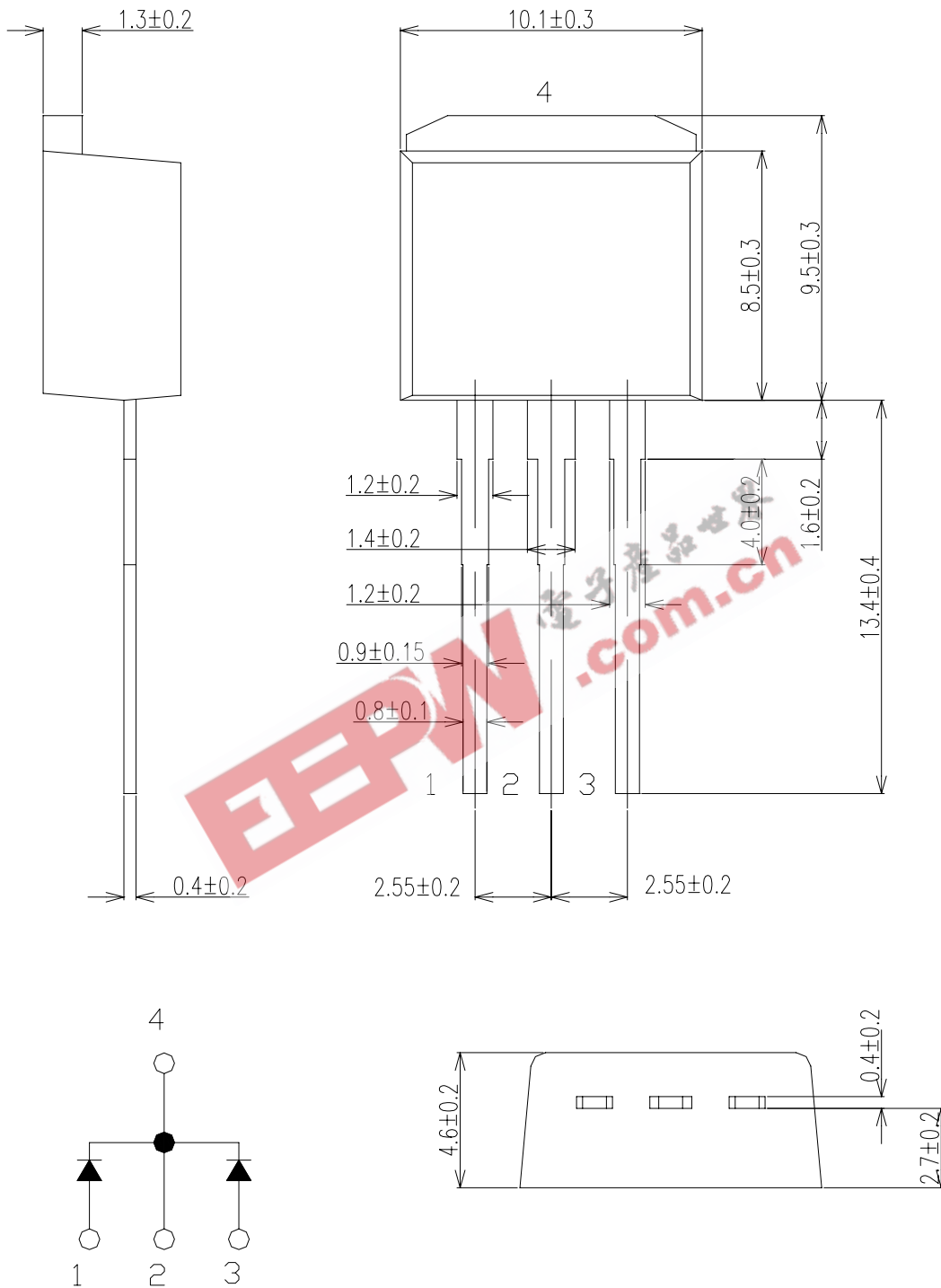
Approx Net Weight: 1.45g

Rating	Symbol	C30T10Q-11A		Unit
Repetitive Peak Reverse Voltage	V _{RRM}	100		V
Average Rectified Output Current	I _O	30	T _c =105°C 50 Hz Full Sine Wave Resistive Load	A
RMS Forward Current	I _{F(RMS)}	33.3		A
Surge Forward Current	I _{FSM}	250	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

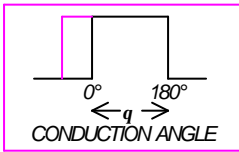
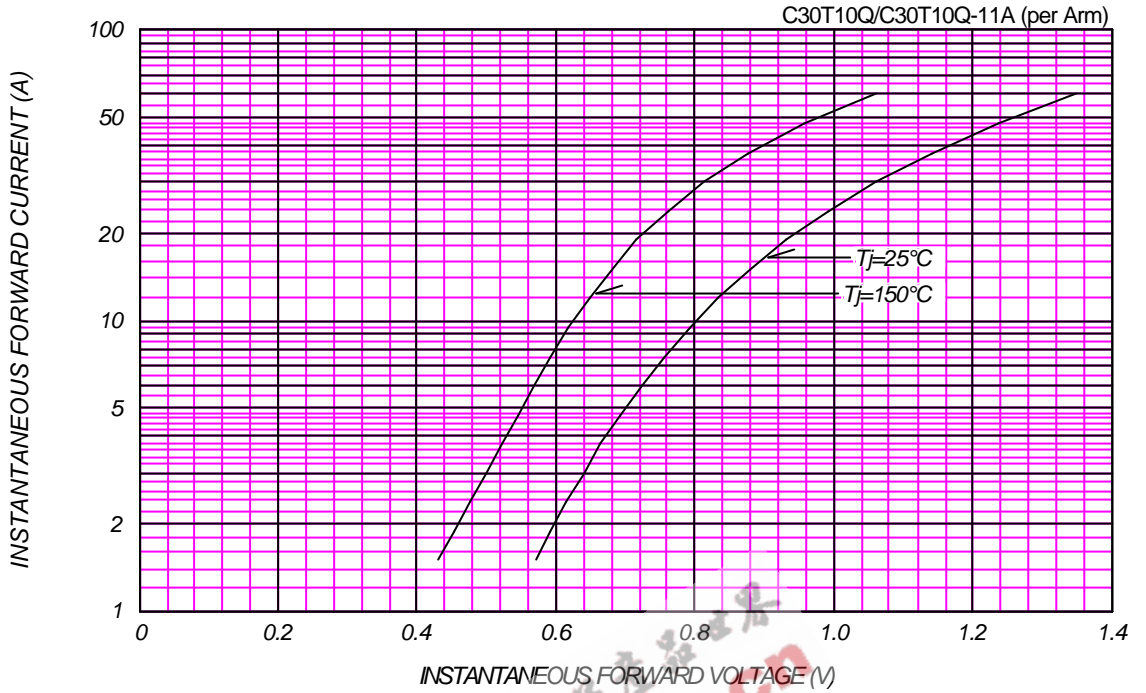
Electrical • Thermal Characteristics

Characteristics	Symbol	Conditions	Min.	Typ.	Max.	Unit
Peak Reverse Current	I _{RM}	T _j = 25°C, V _{RM} = V _{RRM} per arm	-	-	2	mA
Peak Forward Voltage	V _{FM}	T _j = 25°C, I _{FM} = 15 A per arm	-	-	0.88	V
Thermal Resistance	R _{th(j-c)}	Junction to Case	-	-	1.5	°C/W

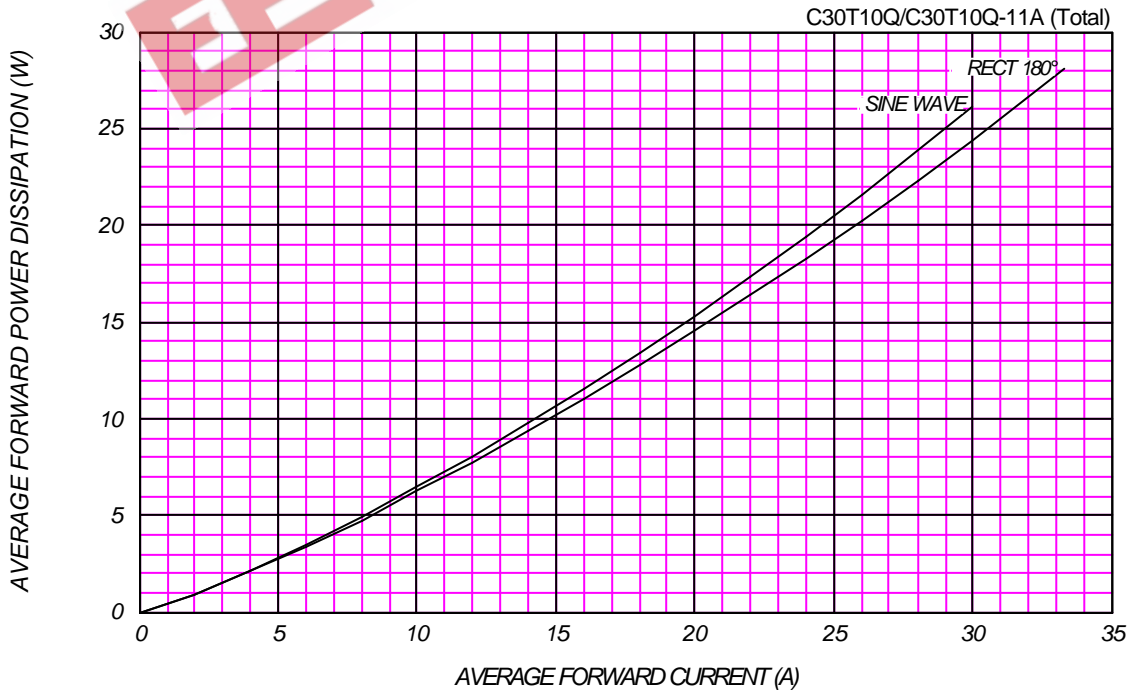
C_T_ 11A OUTLINE DRAWING (Dimensions in mm)



FORWARD CURRENT VS. VOLTAGE



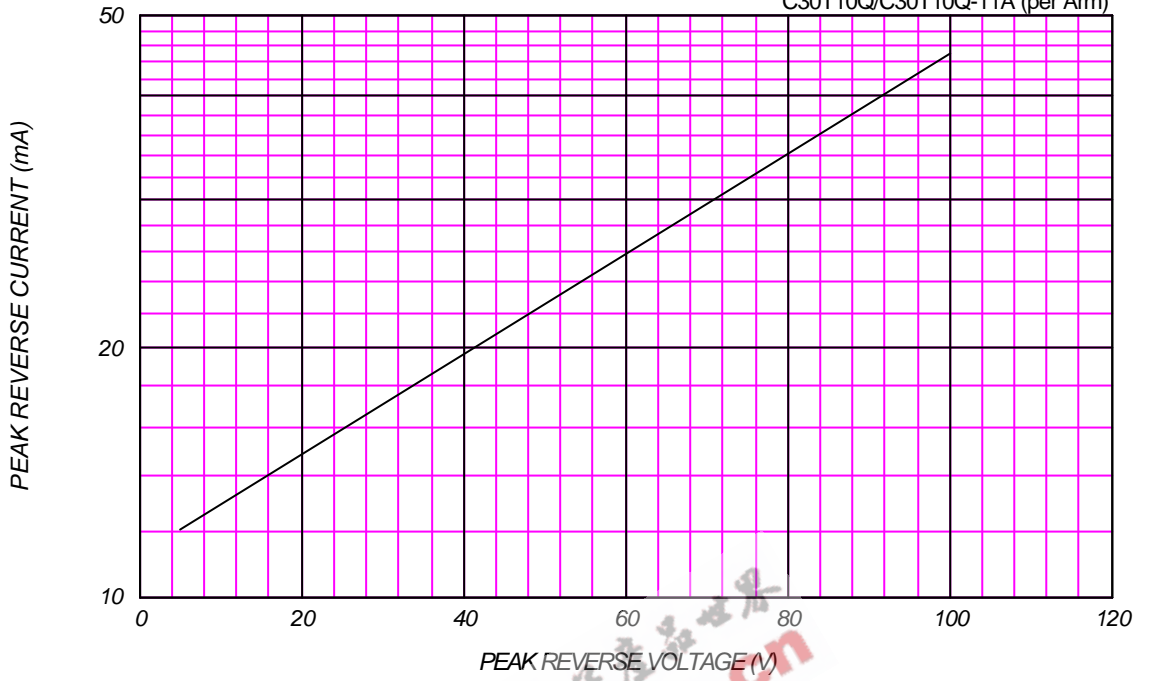
AVERAGE FORWARD POWER DISSIPATION



PEAK REVERSE CURRENT VS. PEAK REVERSE VOLTAGE

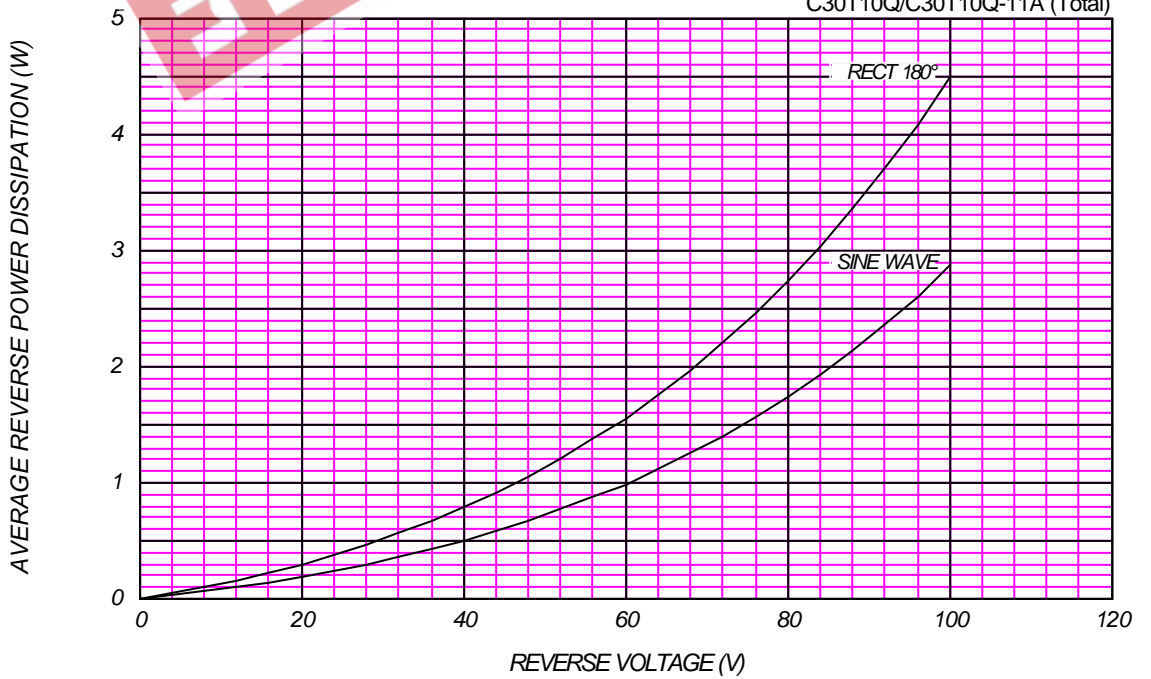
T_j = 150 °C

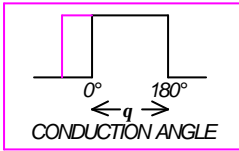
C30T10Q/C30T10Q-11A (per Arm)



AVERAGE REVERSE POWER DISSIPATION

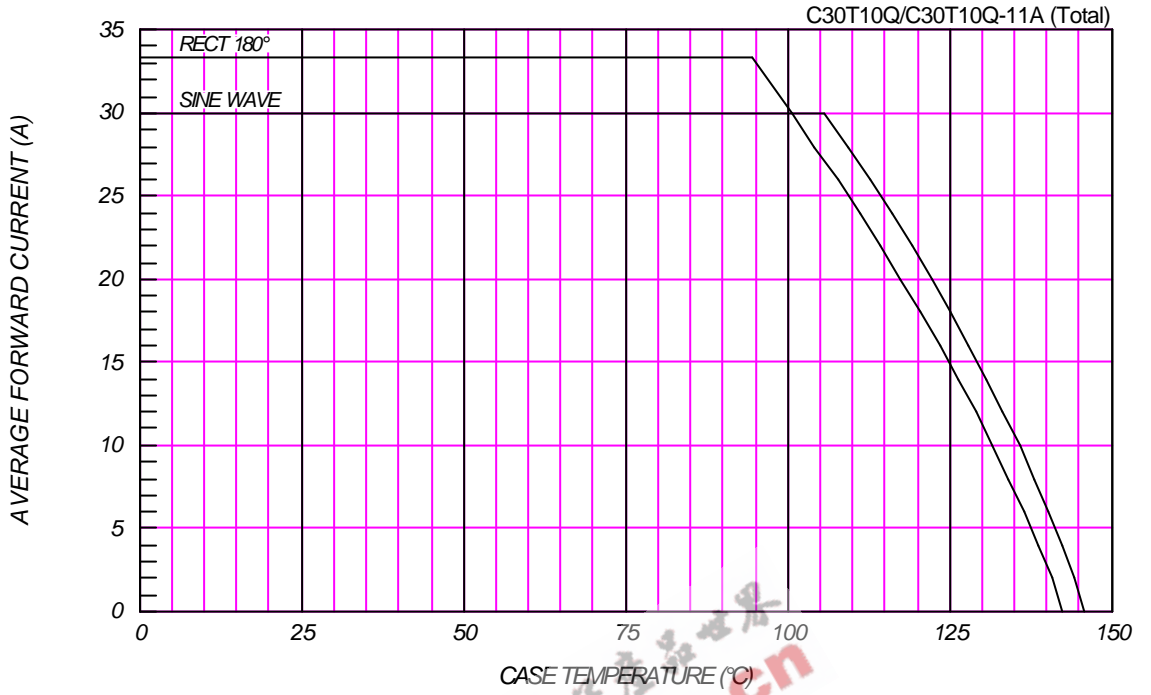
C30T10Q/C30T10Q-11A (Total)





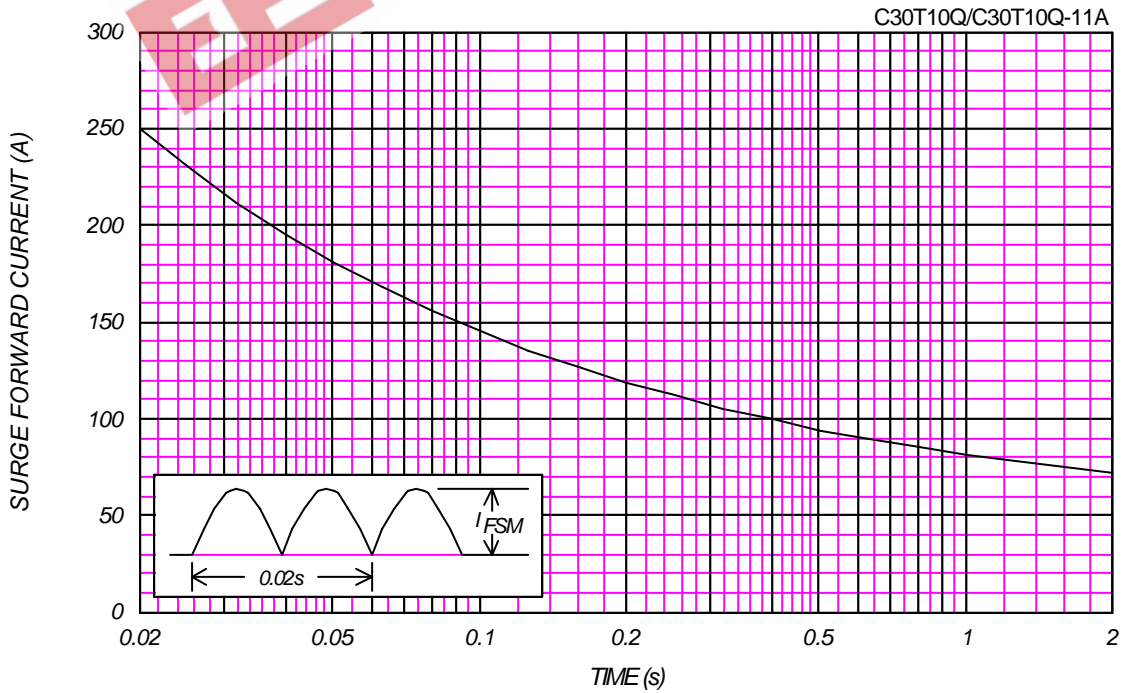
AVERAGE FORWARD CURRENT VS. CASE TEMPERATURE

$V_{RM} = 100V$



SURGE CURRENT RATINGS

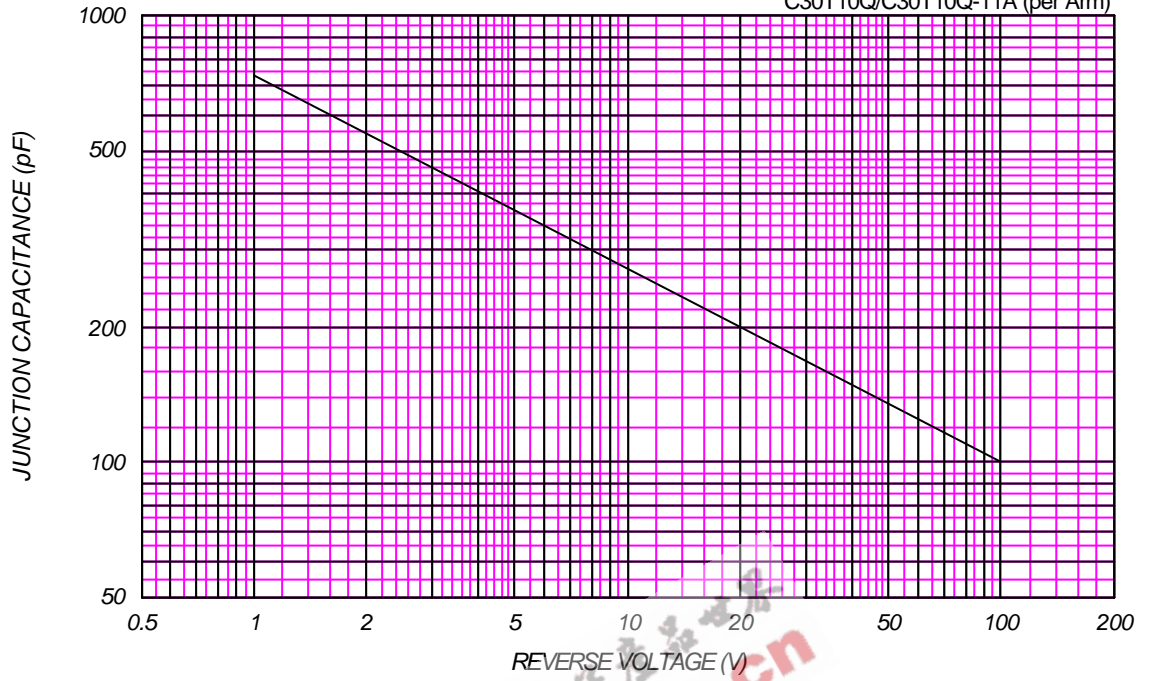
$f = 50\text{Hz}$, Sine Wave, Non-Repetitive, No Load



JUNCTION CAPACITANCE VS. REVERSE VOLTAGE

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

C30T10Q/C30T10Q-11A (per Arm)



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