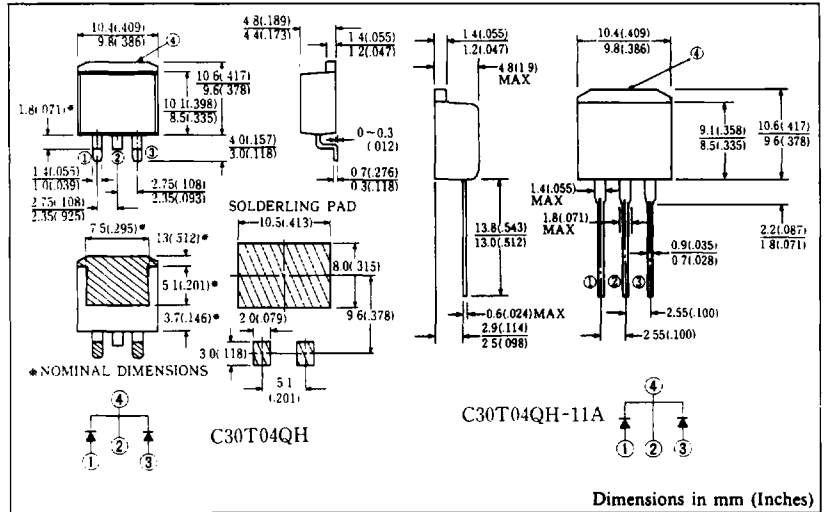


**FEATURES**

- **SQUARE-PAK** TO-263AB (SMD) Packaged in 24mm Tape and Reel : C30T04QH
- Tableless TO-220 : C30T04QH-11A
- Dual Diodes - Cathode Common
- Low Forward Voltage Drop
- High Surge Capability
- $T_j = 150^\circ\text{C}$  operation



Approx. Net Weight: 1.4 Grams

1.75 Grams

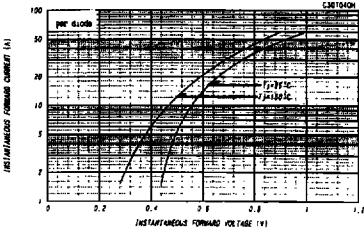
**MAXIMUM RATINGS**

Voltage Rating	Type	C30T04QH C30T04QH-11A		Unit
	Symbol			
Repetitive Peak Reverse Voltage	$V_{RRM}$	40		V
Electrical Rating	Symbol	Condition	Rating	Unit
Average Rectified Output Current	$I_o$	1 $\phi$ sine wave $T_c = 114^\circ\text{C}$	30	A
RMS Forward Current	$I_{F(RMS)}$		33.3	A
Peak One-cycle Forward Surge Current	$I_{FSM}$	50Hz half sine wave 1 cycle, non-repetitive	250	A
Operating Junction Temperature Range	$T_{jw}$		-40 to 150	$^\circ\text{C}$
Storage Temperature Range	$T_{stg}$		-40 to 150	$^\circ\text{C}$

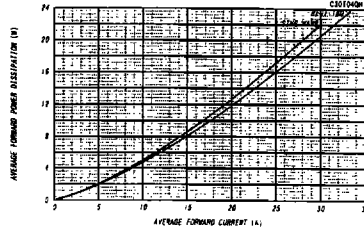
**ELECTRICAL & THERMAL CHARACTERISTICS**

Characteristics	Symbol	Test Condition		Max.	Unit
Peak Forward Voltage	$V_{FM}$	$I_{FM} = 15\text{A}$	$T_j = 25^\circ\text{C}$ per diode leg	0.61	V
Peak Reverse Current	$I_{RM}$	$V_{RM} = V_{RRM}$	$T_j = 25^\circ\text{C}$ per diode leg	1.0	mA
Thermal Resistance	$R_{th(j-c)}$	Junction to Case		1.5	$^\circ\text{C/W}$

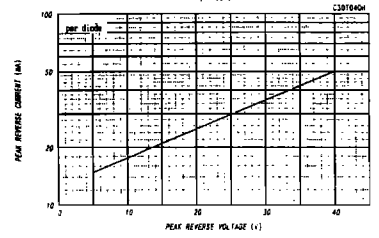
**FORWARD CURRENT VS. VOLTAGE**



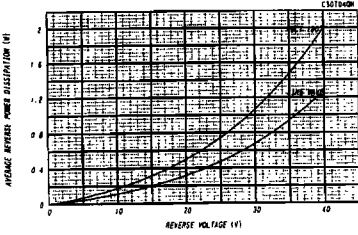
**AVERAGE FORWARD POWER DISSIPATION**



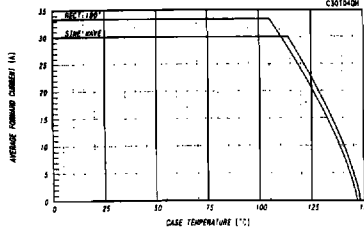
**PEAK REVERSE CURRENT VS. PEAK REVERSE VOLTAGE**  
 $T_A = 150^\circ\text{C}$



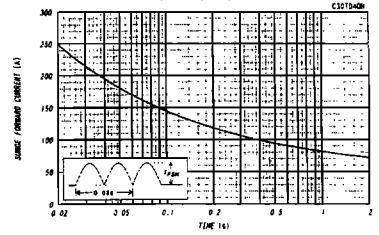
**AVERAGE REVERSE POWER DISSIPATION**



**AVERAGE FORWARD CURRENT VS. CASE TEMPERATURE**  
 $V_{FM} = 10\text{V}$



**PULSE CURRENT RATINGS**  
 $f = 50\text{Hz}$ , SINE WAVE, NON-REPEITIVE, NO LOAD



**JUNCTION CAPACITANCE VS. REVERSE VOLTAGE**  
 $f = 1\text{kHz}$ ,  $V_{FM} = 0.5\text{V}$ ,  $f = 100\text{kHz}$ , Typical Value

