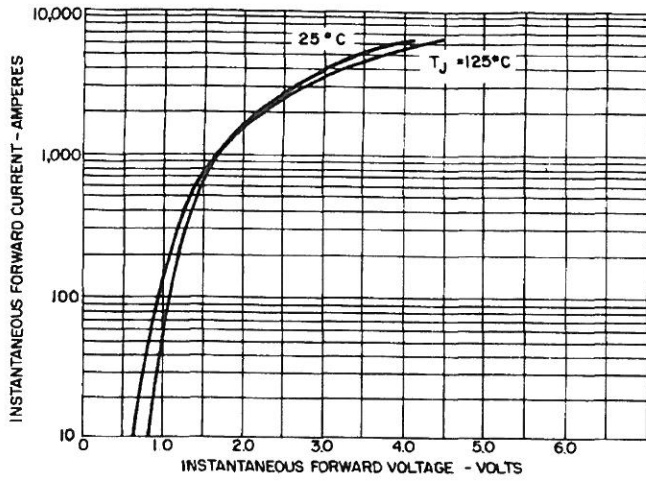
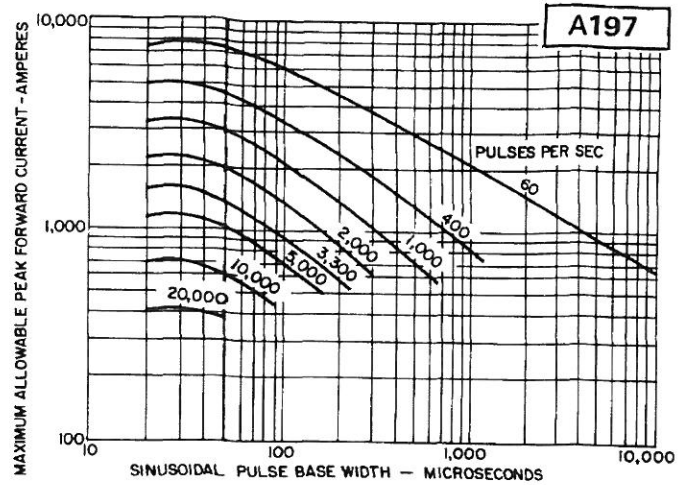




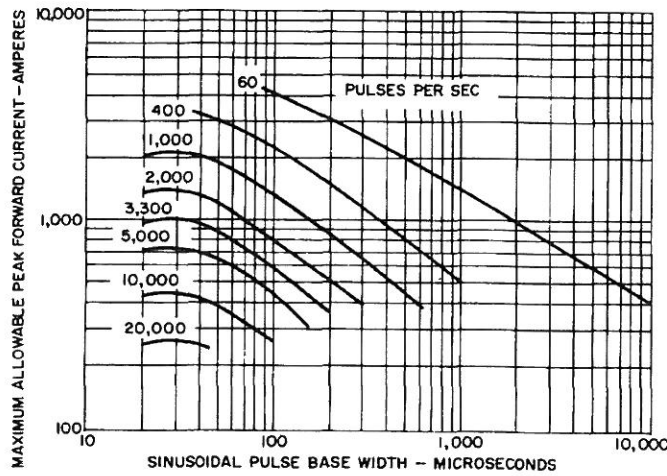
# DEVICE SPECIFICATIONS



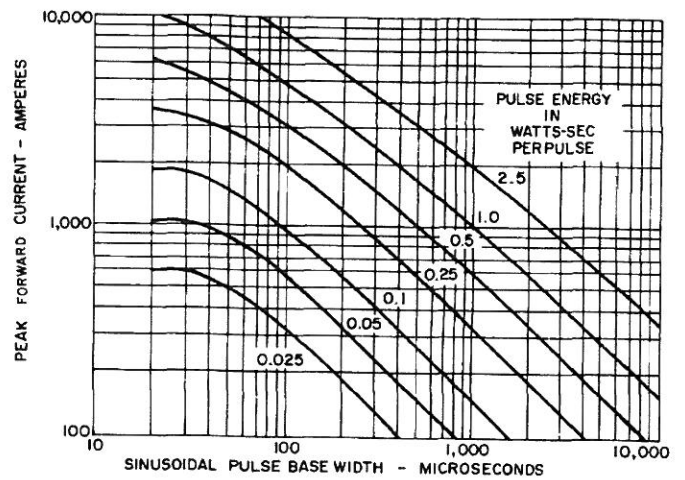
1. MAXIMUM FORWARD CHARACTERISTICS



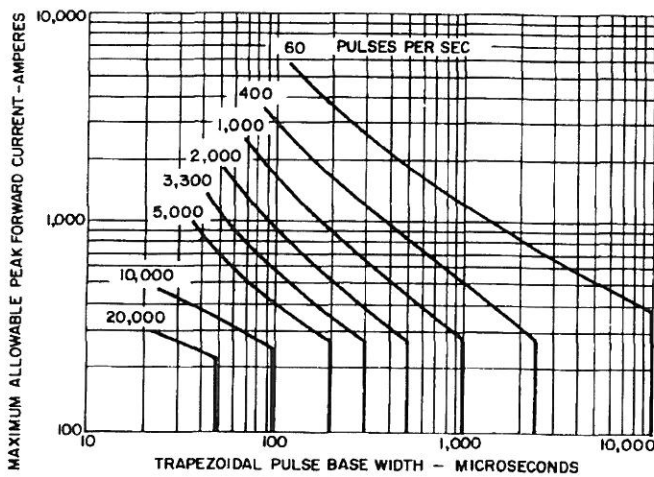
2. MAXIMUM ALLOWABLE PEAK FORWARD CURRENT SINUSOIDAL WAVEFORM ( $T_C = 65^\circ\text{C}$ )



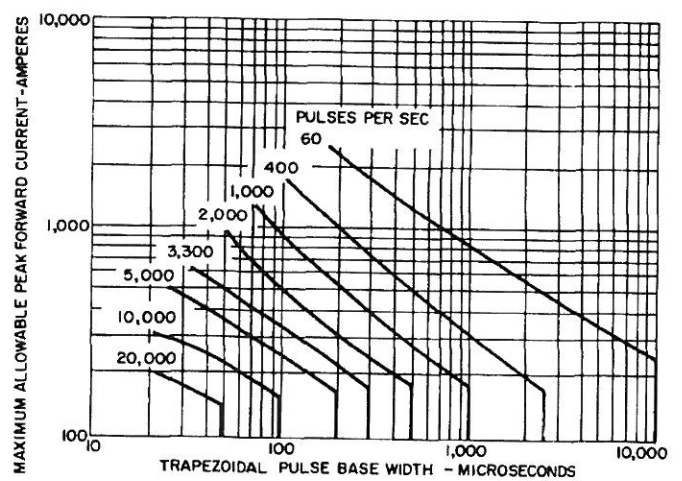
3. MAXIMUM ALLOWABLE FORWARD CURRENT SINUSOIDAL WAVEFORM ( $T_C = 90^\circ\text{C}$ )



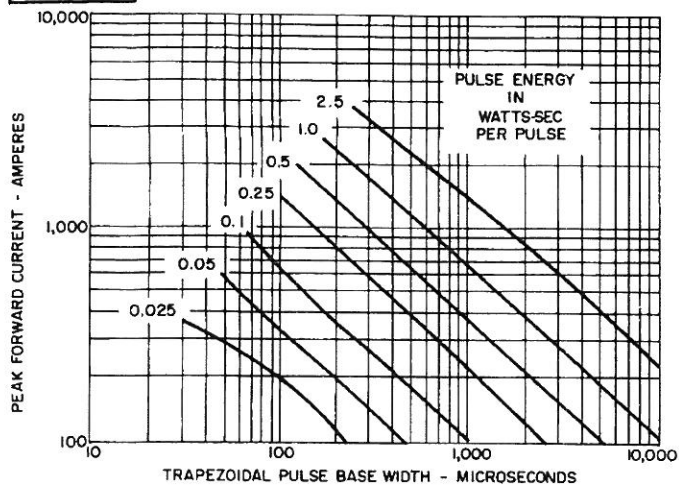
4. SINUSOIDAL PULSE ENERGY ( $T_J = 125^\circ\text{C}$ )



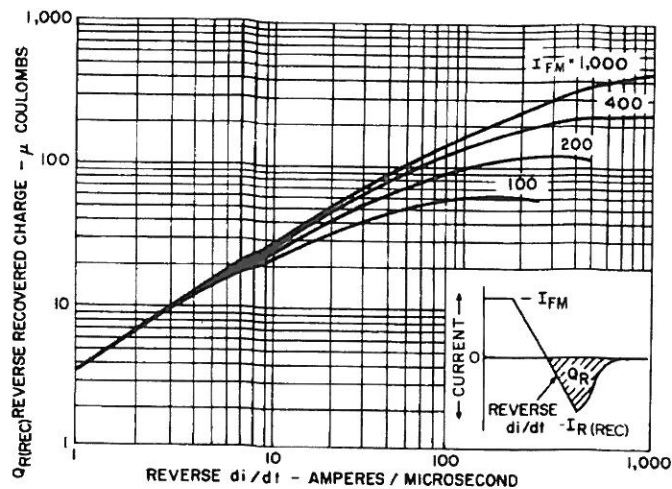
5. MAXIMUM ALLOWABLE PEAK FORWARD CURRENT, TRAPEZOIDAL WAVEFORM ( $T_C = 65^\circ\text{C}$ ),  $DI/DT$  (RISING & FALLING) =  $100\text{ A}/\mu\text{S}$



6. MAXIMUM ALLOWABLE PEAK FORWARD CURRENT, TRAPEZOIDAL WAVEFORM ( $T_C = 90^\circ\text{C}$ ),  $DI/DT$  (RISING & FALLING) =  $100\text{ A}/\mu\text{S}$

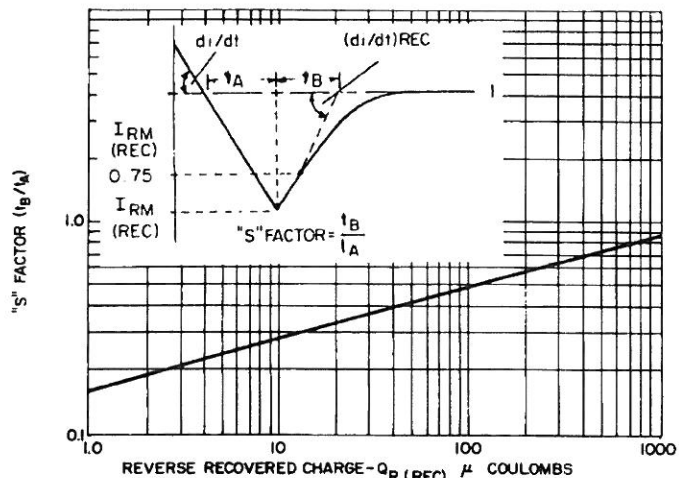


7. TRAPEZOIDAL PULSE ENERGY ( $T_J = 125^\circ\text{C}$ )  
 $DI/DT$  (RISING & FALLING) = 100 A/ $\mu\text{s}$

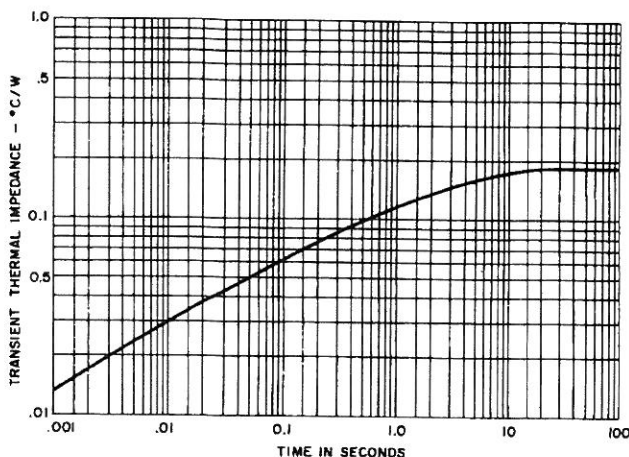


8. RECOVERED CHARGE ( $T_J = 125^\circ\text{C}$ )  
 (Maximum Recovered Charge Group 12)

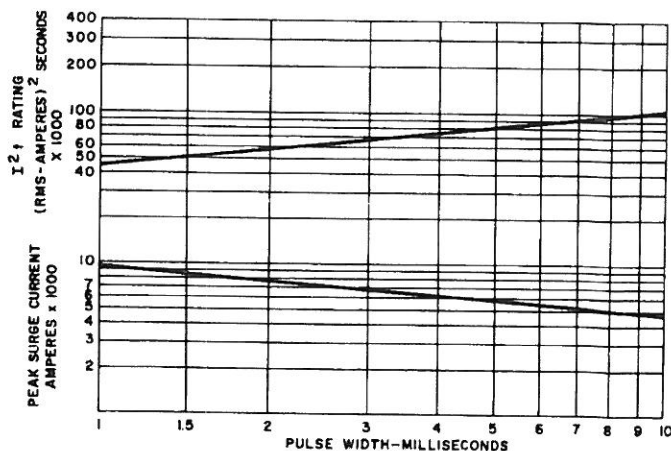
If maximum recovered charge group 12 is required, request A197\_\_\_ X9, e.g. A197BX9, A197RBX9, etc.



9. TYPICAL "S" FACTOR VERSUS REVERSE RECOVERED CHARGE ( $T_J = 125^\circ\text{C}$ )

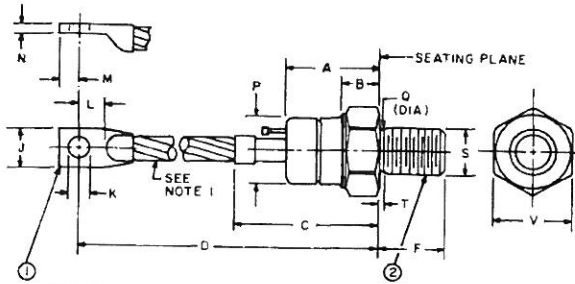


10. TRANSIENT THERMAL IMPEDANCE - JUNCTION-TO-CASE



11. SUB-CYCLE SURGE FORWARD CURRENT AND  $I^2t$  RATINGS VERSUS PULSE TIME FOLLOWING RATED LOAD CONDITIONS

OUTLINE DRAWING



MODEL	TERMINAL 1	TERMINAL 2	S THREAD SIZE
A197 FORWARD POLARITY	ANODE	CATHODE	3/4 - 16
A197R REVERSE POLARITY	CATHODE	ANODE	UNF - 2A

TABLE OF DIMENSIONS  
Conversion Table

SYM.	DECIMAL INCHES		METRIC MM		NOTES
	MIN	MAX.	MIN	MAX.	
A	1.450	1.550	36.83	39.37	
B	.500	.750	12.70	19.05	
C	2.300	2.500	58.42	63.50	
D	5.300	5.700	134.62	144.78	
F	.797	.827	20.24	21.01	
J	.665	.755	16.89	19.18	
K	.322	.333	8.17	8.46	
L	.437	-	11.99	-	
M	.325	.360	8.25	9.14	
N	.155	.170	-	-	
P	1.060	1.100	26.92	27.94	
Q	.660	.749	16.76	19.02	
T	-	.156	-	3.96	3
V	1.240	1.250	31.49	31.75	

NOTES:

1. Flexible Copper Lead
2. One Nut and One Lockwasher Supplied With Each Unit. Material of Hardware is Steel, Cad Plated
3. "T" Dimension is Area of Unthreaded Portion. Complete Threads are Within 2.5 Threads of Seating Plane
4. Angular Orientation of Terminals is Undefined

MOUNTING INSTRUCTIONS

Following these installation instructions will result in a rectifier diode-to-heat sink contact thermal resistance of 0.08°C/watt or less.

1. Be sure mounting surface is clean and flat within .001 inch/inch.
2. Mounting hole diameter should not exceed the outside diameter of the rectifier diode stud by more than 1/16 inch, and should be deburred.
3. Use Dow Corning's DC3, 4, 340 or 640 or GE G322L or equivalent, on mounting surfaces that come in contact with the heat sink.
4. Use only hardware furnished with each rectifier diode.
5. Tighten with a torque wrench, from nut side, to 325 lb-in max.