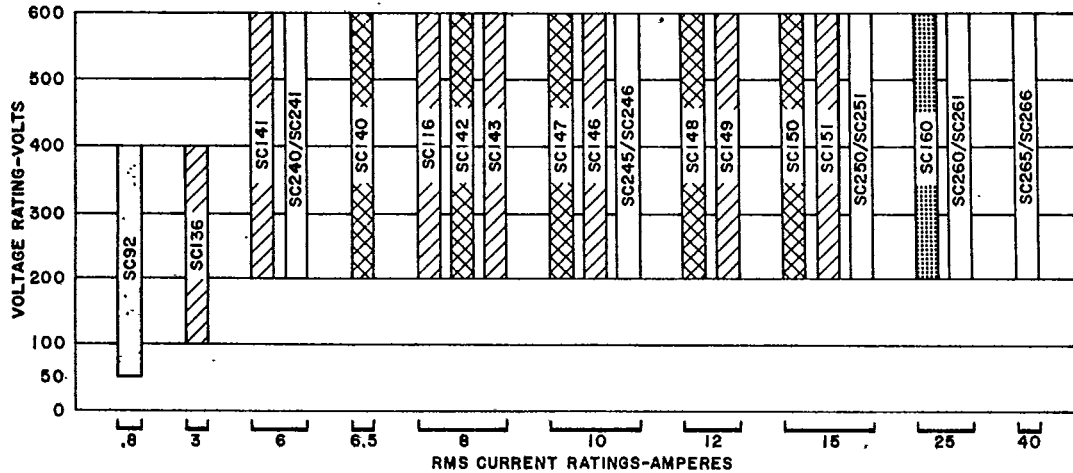


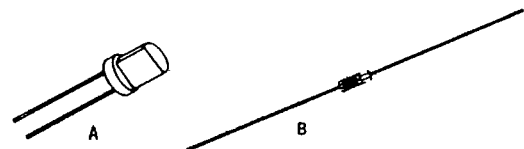


TRIAC SELECTOR GUIDE



ALL WITH POWER-GLAS PASSIVATION

- ISOLATED PLASTIC
- NON-ISOLATED PLASTIC
- HERMETIC METAL
- TO-92
- ECONOPOWER



TRIAC TRIGGERS

The ST2 (diac) is a silicon bi-directional diode which may be used for triggering triacs or SCR's. It has a three layer structure with negative resistance switching characteristics in both directions.

The ST4 is an asymmetrical AC trigger integrated circuit for use in triac phase control applications. This device reduces the snap-on effects that are present in conventional trigger circuits by eliminating control circuit hysteresis. This performance is possible with a single RC time constant where as a symmetrical circuit of comparable performance would require at least three more passive components.

GE Type	V _{S2} Switching Voltage		V _{S1} Switching Voltage		I _{S2, I_{S1}} Switching Current Max. (μA)	Pulse Output Min. (V)	Package Outline No.
	Min. (V)	Max. (V)	Min. (V)	Max. (V)			
ST2	28 ¹	36 ¹	28 ¹	36 ¹	200	3.0	B.
ST4	7	9	14	18	80	3.5	A

¹ For ST2, V_{S2} = V_S ± 10%

BIDIRECTIONAL TRIGGER DIODE (DIAC)

	V _{(BO)+} & V _{(BO)-}			I _{SO} MAX mA	ΔV α ΔI		V _{SYM} MIN VOLTS	P _{AV} MAX mW
	MIN VOLTS	TYP VOLTS	MAX VOLTS		MIN VOLTS	MIN mA		
BT002	28	32	36	1.0	6.0	10	5.0	150

case outline drawings

TO1

TO3

TO5

TO18

TO33

TO36

TO39

TO46

TO59

TO61

TO63

TO66

TO72

TO92

F8

Y220/TO220

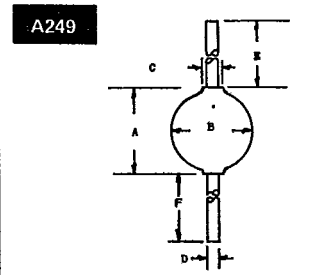
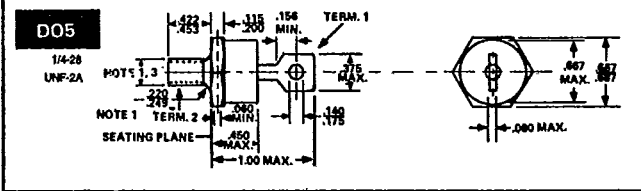
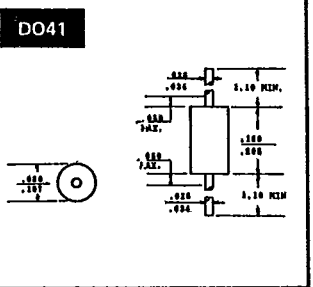
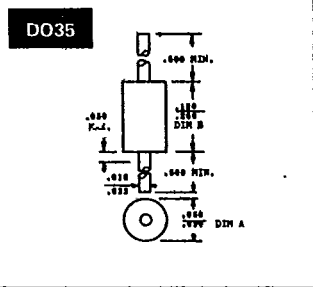
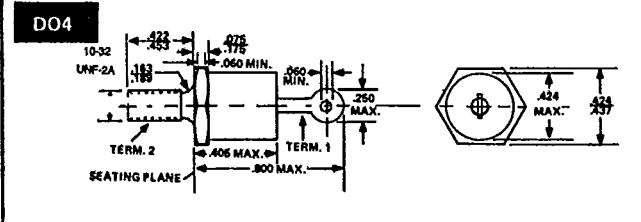
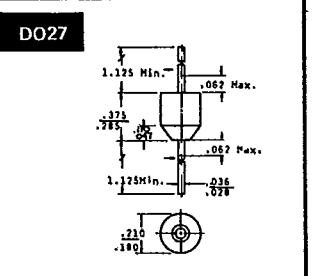
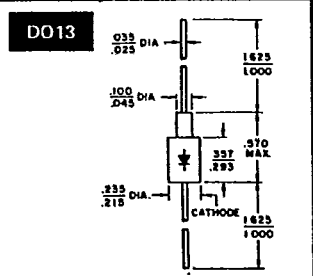
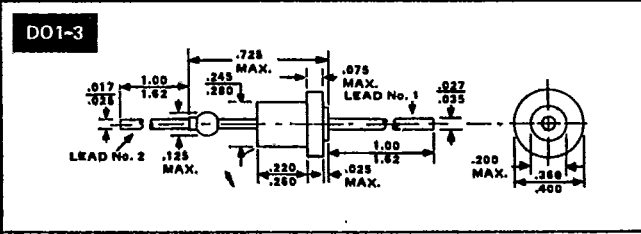
NOTES:

1. Refer to rules for dimensioning semiconductor product outlines included in Publication No. 76.
2. Figure "A", Axial Terminal Configuration, applicable.
3. Figure "B", Peripheral Terminal Configuration, applicable.
4. Alternate lead configurations allowed within C and D.
5. Tab contour optional within M and P.
6. Chamfer optional.
7. Position of lead to be measured .050 - .055 below seating plane.
8. Position of lead to be measured .250 - .325 from bottom of dimension E.

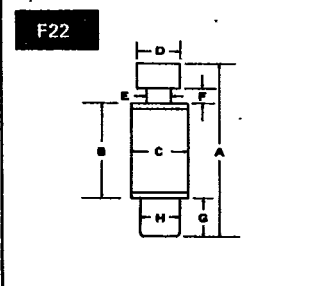
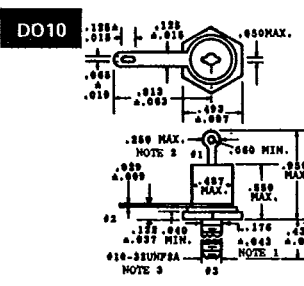
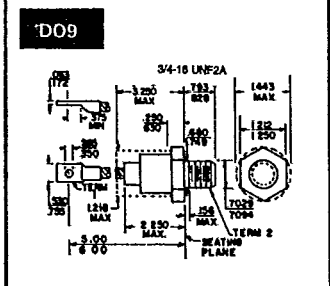
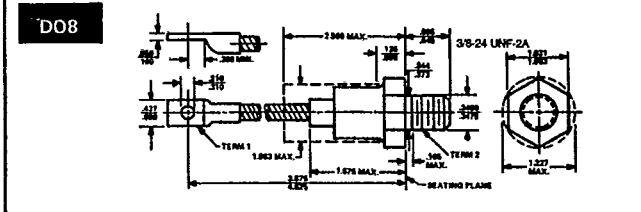
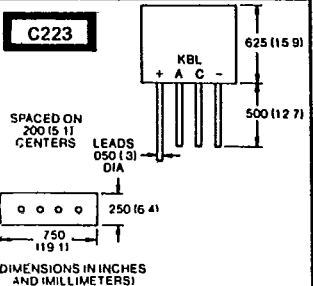
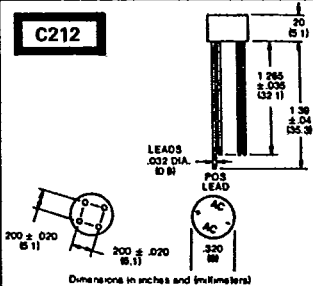
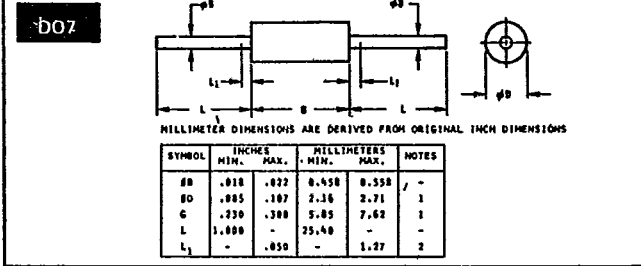
	A	B	C	D	E	F	G	H	I	J	K	L	M	N	P	Q	R	S	T	U	V	NOTES
Y220n/	.140	.045	.020	.012	.840	.340				.180	.040	.530	.040				.050	.340	.127	.100	.580	2
TO220AA	.180	.075	.045	.045	.885	.420				.210	.055	.570	.115									
Y220D	.140	.045	.020	.012	.840	.340	.090	.190			.020	.240	.040	.420	.180							
TO220AB	.180	.075	.045	.045	.885	.420	.110	.210			.025	.270	.117	.480	.180							3
TO220C																						



case outline drawings cont'd



	A	B	C	D	E	F
AR48	.150 MAX	.150 MAX	.025 MIN	.055 MAX	1.080 MIN	1.080 MIN
AR48A	.150 MAX	.150 MAX	.025 MIN	.055 MAX	1.080 MIN	1.080 MIN
AR48B	.150 MAX	.150 MAX	.025 MIN	.055 MAX	1.080 MIN	1.080 MIN
AR48C	.150 MAX	.150 MAX	.025 MIN	.055 MAX	1.080 MIN	1.080 MIN



	A	B	C	D	E	F	G	H
F22	.875 MAX	.600 MAX	.240 MAX	.240 MAX	.100 MAX	.052 MAX	.235 MAX	.240 MAX
F22A	1.00 MAX	.600 MAX	.240 MAX	.240 MAX	.100 MAX	.052 MAX	.235 MAX	.240 MAX
F22B	1.00 MAX	.600 MAX	.240 MAX	.240 MAX	.100 MAX	.052 MAX	.235 MAX	.240 MAX
F22C	1.00 MAX	.600 MAX	.240 MAX	.240 MAX	.100 MAX	.052 MAX	.235 MAX	.240 MAX
F22D	1.00 MAX	.600 MAX	.240 MAX	.240 MAX	.100 MAX	.052 MAX	.235 MAX	.240 MAX
F22E	1.00 MAX	.600 MAX	.240 MAX	.240 MAX	.100 MAX	.052 MAX	.235 MAX	.240 MAX
F22F	1.00 MAX	.600 MAX	.240 MAX	.240 MAX	.100 MAX	.052 MAX	.235 MAX	.240 MAX
F22G	1.00 MAX	.600 MAX	.240 MAX	.240 MAX	.100 MAX	.052 MAX	.235 MAX	.240 MAX
F22H	1.00 MAX	.600 MAX	.240 MAX	.240 MAX	.100 MAX	.052 MAX	.235 MAX	.240 MAX
F22I	1.00 MAX	.600 MAX	.240 MAX	.240 MAX	.100 MAX	.052 MAX	.235 MAX	.240 MAX