



semtron hot line

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discrete
devices

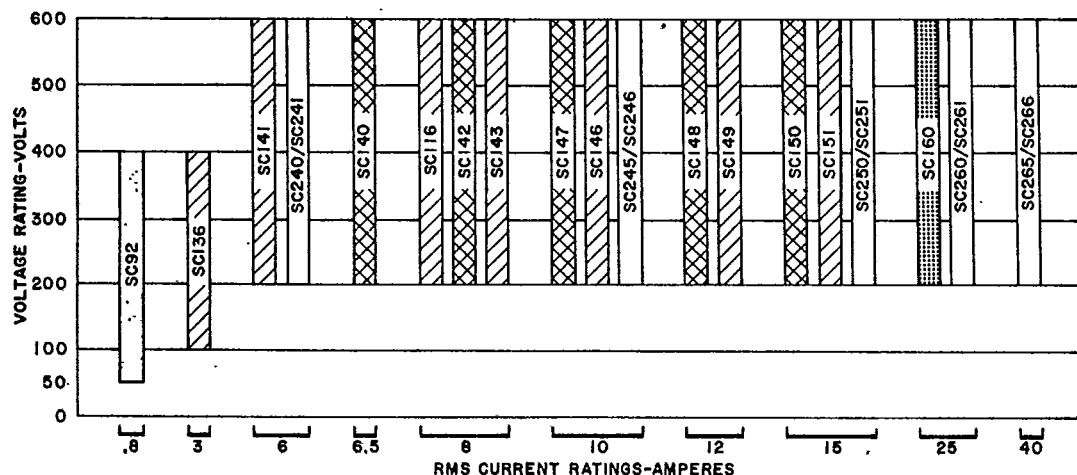
TOLL FREE NUMBER 800-777-3960

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INTEX/ SEMITRONICS CORP

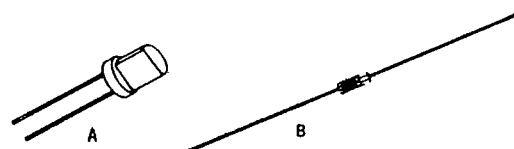
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TRIAC SELECTOR GUIDE



ALL WITH POWER-GLASS 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 _{BO}	ΔV < ΔI		V _{SYM}	P _{AV}
	MIN VOLTS	TYP VOLTS	MAX VOLTS		MIN VOLTS	MIN mA		
BT0022	28	32	36	1.0	6.0	10	5.0	150

case outline drawings

