

Phase control thyristor(Stud version)

Features:

- High current rating
- Excellent dynamic characteristics
- Superior surge capabilities
- Standard package
- Metric device version available

Typical applications

- Phase control applications in converters
- Lighting circuits
- Battery charges
- Regulated power supplies and temperature and speed control circuit
- Can be supplied to meet stringent military, aerospace and other high-reliability requirements
- Power supplier & motor controls

Ordering information table

S 50 RIA 120 M

1 2 3 4 5

1. None=Standard thyristor; S=Triac thyristor; K=Fast thyristor;
2. Current code=IT(AV)
3. Essential part number;
4. Voltage code=codex10=VRRM;
5. None=Standard inch device; M=metric device;

ST 300 S 16 M V

1 2 3 4 5 6

1. ST=Standard thyristor; SST=Triac thyristor; KST=Fast thyristor;
2. Current code=IT(AV)
3. S=Stud version device
4. Voltage code=codex100=VRRM;
5. None=Standard inch device; M=metric device;
6. None=ceramic seal; V=glass-metal seal;



Type	IT(AV)	VTM/ITM		ITRMS	VRRM	IRRM	IGT	IH	IL	dw/dt	Rjc	M2	Wt	Out
	THS55°C	25°C												
	A	V	A	A	V	mA	mA	mA	mA	mA	°C/W	N/m	kg	
10RIA	10	1.75	30	16	200-1200	≤10	10-100	≤150	≤200	≥500	≤1.8	≤2.0	0.016	TO-48
16RIA	16	1.75	48	25	200-1200	≤10	10-100	≤150	≤200	≥500	≤1.5	≤2.0	0.016	
25RIA	25	1.70	75	40	200-1200	≤10	10-100	≤150	≤200	≥500	≤1.0	≤2.0	0.016	
40RIA	40	1.95	120	64	200-1200	≤12	50-200	≤150	≤200	≥500	≤1.0	≤2.0	0.022	TO-65
50RIA	50	1.90	150	80	200-1200	≤12	50-200	≤150	≤200	≥500	≤0.8	≤2.0	0.022	
ST80S	80	1.6	240	128	200-1600	≤15	50-200	≤200	≤400	≥800	≤0.6	≤12	0.160	TO-94
ST100S	100	1.6	300	160	200-1600	≤15	50-200	≤200	≤400	≥800	≤0.6	≤12	0.160	
ST130S	130	1.55	390	208	200-1600	≤15	50-200	≤200	≤400	≥800	≤0.55	≤12	0.160	
ST150S	150	1.6	450	240	200-1600	≤20	50-200	≤200	≤400	≥800	≤0.5	≤12	0.160	
ST180S	200	1.75	600	320	200-1800	≤20	50-200	≤400	≤600	≥800	≤0.4	≤25	0.280	TO-93
ST230S	250	1.75	750	400	200-1800	≤20	50-200	≤400	≤600	≥800	≤0.2	≤25	0.280	
ST280S	280	1.70	840	450	200-1800	≤25	50-200	≤400	≤600	≥800	≤0.15	≤25	0.280	
ST300S	300	1.5	900	480	200-2400	≤40	50-200	≤600	≤1000	≥800	≤0.10	≤30	0.580	TO-118
ST330S	330	1.55	990	530	200-2400	≤40	50-200	≤600	≤1000	≥800	≤0.07	≤30	0.580	
ST350S	350	1.6	1050	560	200-2400	≤40	50-200	≤600	≤1000	≥800	≤0.06	≤30	0.580	

Note: VGT: ≤2.5; di/dt: ≥100; Tj: -40 C ~125 C

Diode stud version outline

