

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

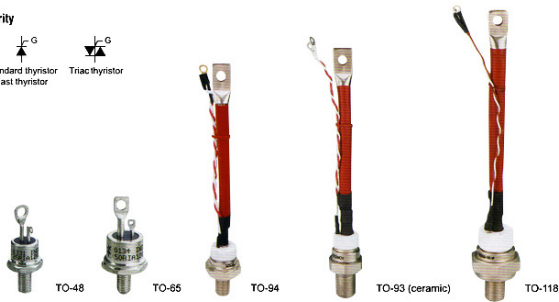
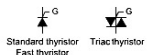
S 50 RA 120 M
1 2 3 4 5

1. None=Standard thyristor; S=Triac thyristor; K=Fast thyristor;
2. Current code=IT(AV)
3. Essential part number;
4. Voltage code=code×10=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=code×100=VRRM;
5. None=Standard inch device; M=metric device;
6. None=ceramic seal; V=glass-metal seal;

Polarity



Type	I _{T(AV)}		V _{TM/MTM}		I _{TRMS}	V _{RRM}	I _{RRM}	I _{GT}	I _H	I _L	d _v /d _t	R _{jc}	M ²	W _t	Out
	T _{Hg} 55°C		25°C												
	A	V	A	A											
10RA	10	1.75	30	16	200-1200	≤10	10-100	≤150	≤200	≥500	≤1.8	≤2.0	0.016		TO-48
16RA	16	1.75	48	25	200-1200	≤10	10-100	≤150	≤200	≥500	≤1.5	≤2.0	0.016		
25RA	25	1.70	75	40	200-1200	≤10	10-100	≤150	≤200	≥500	≤1.0	≤2.0	0.016		
40RA	40	1.95	120	64	200-1200	≤12	50-200	≤150	≤200	≥500	≤1.0	≤2.0	0.022		TO-65
50RA	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		
ST100S	100	1.6	300	160	200-1600	≤15	50-200	≤200	≤400	≥800	≤0.6	≤12	0.160		TO-94
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	≤2.5	0.280		TO-93
ST230S	250	1.75	750	400	200-1800	≤20	50-200	≤400	≤600	≥800	≤0.2	≤2.5	0.280		
ST280S	280	1.70	840	450	200-1800	≤25	50-200	≤400	≤600	≥800	≤0.15	≤2.5	0.280		
ST300S	300	1.5	900	480	200-2400	≤40	50-200	≤600	≤1000	≥800	≤0.10	≤3.0	0.580		TO-118
ST330S	330	1.55	990	530	200-2400	≤40	50-200	≤600	≤1000	≥800	≤0.07	≤3.0	0.580		
ST350S	350	1.6	1050	560	200-2400	≤40	50-200	≤600	≤1000	≥800	≤0.06	≤3.0	0.580		

Note: V_{GT}≤2.5; d_v/d_t≥100; T_j-40°C~+125°C

Diode stud version outline

