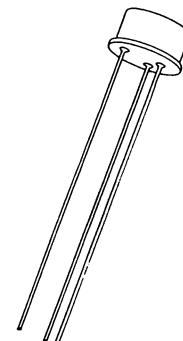


The 2N1595 series of Silicon Controlled Rectifiers are planar-passivated, all-diffused, three junction, reverse blocking triode thyristors for low power switching and control applications. The 2N2322 series, which is also available, offers additional maximum specified electrical parameters.

- Painted external surface for maximum heat dissipation
- Single-ended package, ideal for printed circuit applications
- All-welded construction
- All-diffused, planar passivated
- Glass-to-metal seals



MAXIMUM ALLOWABLE RATINGS

TYPE	REPETITIVE PEAK OFF-STATE VOLTAGE, $V_{DRM(1)}$	PEAK POSITIVE ANODE VOLTAGE PFV	REPETITIVE PEAK REVERSE VOLTAGE, V_{RRM}
	$T_C = -65^{\circ}\text{C to } +125^{\circ}\text{C}$		
2N1595	50 Volts *	500 Volts	50 Volts *
2N1596	100 Volts *	500 Volts	100 Volts *
2N1597	200 Volts *	500 Volts	200 Volts *
2N1598	300 Volts *	500 Volts	300 Volts *
2N1599	400 Volts *	500 Volts	400 Volts *

(1) Applies for 1000 ohms maximum, connected gate-to-cathode.

RMS On-State Current, $I_{T(RMS)}$	1.6 Amperes (all conduction angles)
Average On-State Current, $I_{T(AV)}$	Depends on conduction angle (see Charts 3, 4, 5 and 6)
Peak One-Cycle Surge (Non-rep) On-State Current, I_{TSM}	15 Amperes*
Peak Gate Power Dissipation, P_{GM}	0.1 Watts
Average Gate Power Dissipation, $P_{G(AV)}$	0.01 Watts
Peak Positive Gate Current, I_{GM}	0.1 Amperes
Peak Positive Gate Voltage, V_{GM}	6 Volts
Peak Negative Gate Voltage, V_{GM}	-6 Volts
Storage Temperature, T_{STG}	-65°C to +150°C*
Operating Temperature, T_J	-65°C to +150°C

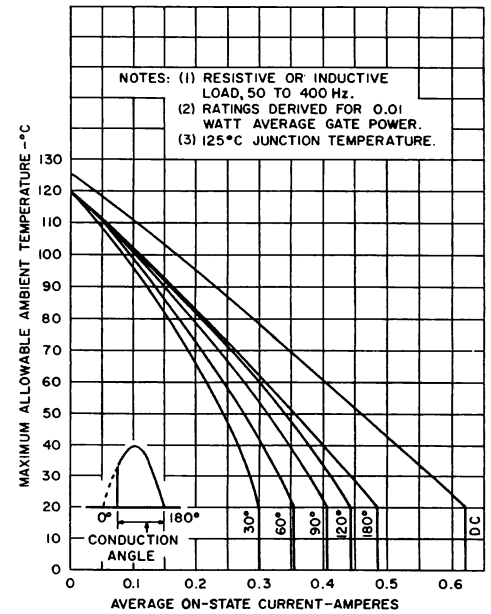
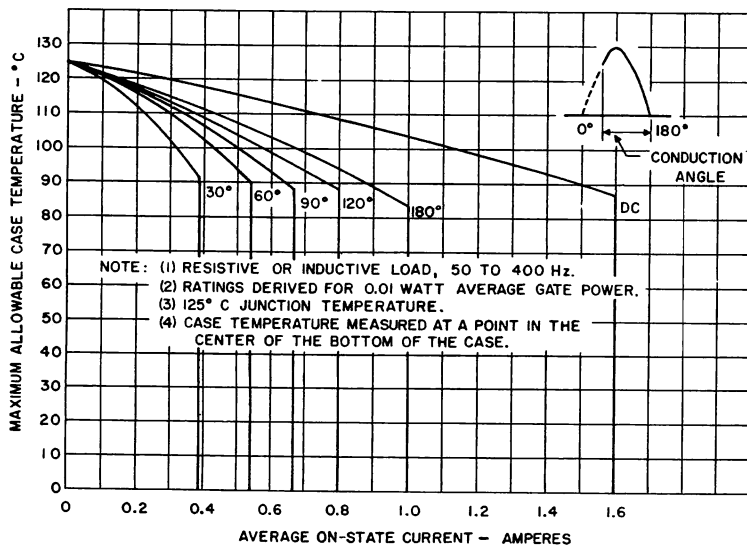
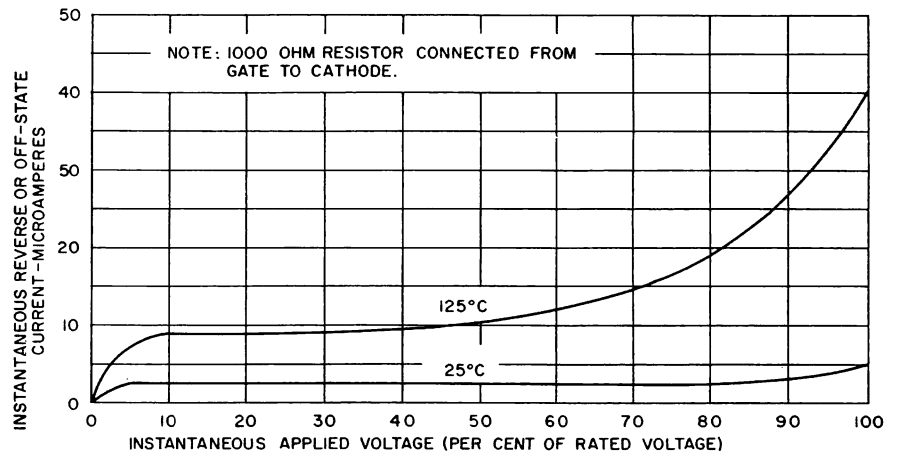
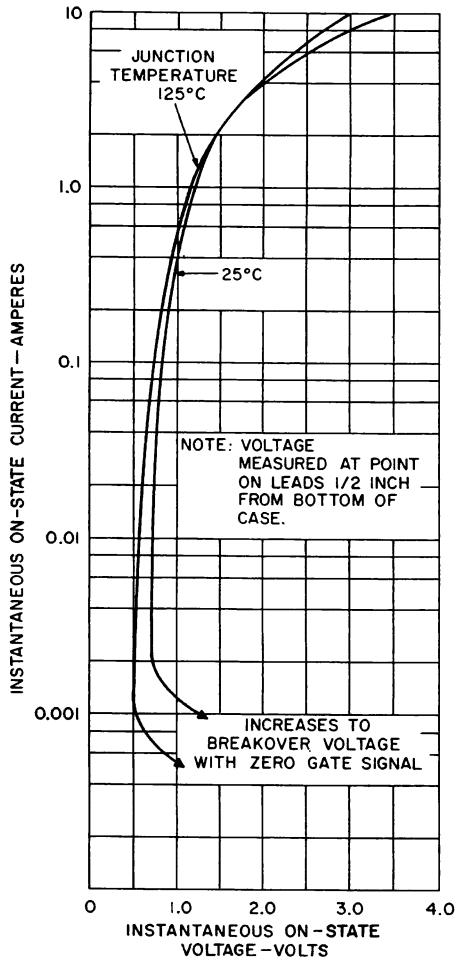
* Indicates data included in JEDEC type number registration.



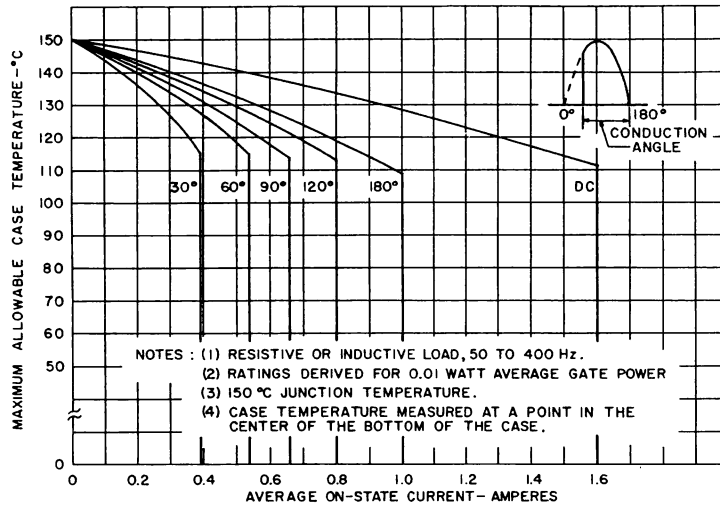
SOLID STATE INC.

46 FARRAND STREET
BLOOMFIELD, NEW JERSEY 07003

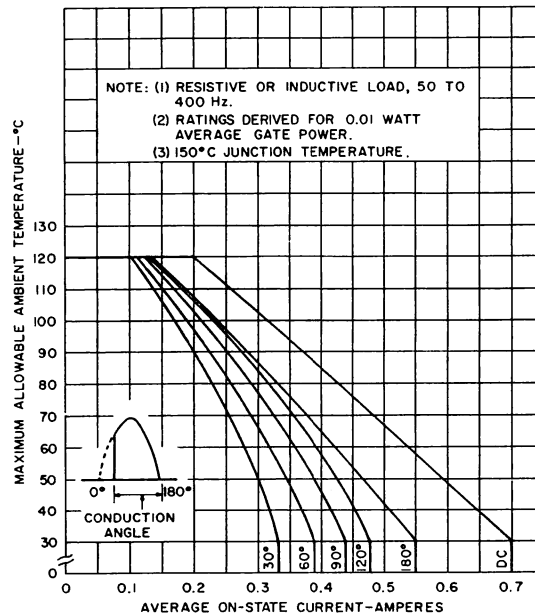
www.solidstateinc.com



Charts 5 and 6 apply to latching applications where SCR need not block off-state voltage after being turned on, since the V_{DRM} specification does not apply above + 125°C junction temperature. SCR will again block rated off-state voltage after junction temperature drops below + 125°C.



**5. MAXIMUM ALLOWABLE CASE TEMPERATURE
(125°C Junction Temp.)**



**6. MAXIMUM ALLOWABLE
AMBIENT TEMPERATURE
(150°C Junction Temp.)**