

**TECCOR**  
ELECTRONICS, INC.

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# SCR's 1-70 AMPS

## NON-SENSITIVE GATE

### General Information

The Teccor Electronics line of thyristor SCR semiconductors are half-wave unidirectional gate-controlled rectifiers which complement Teccor's line of sensitive gate SCR's. Teccor offers devices with current ratings from 1-70 Amps and Voltage ratings from 30-600 Volts with gate sensitivities from 10-50 milliamps. If gate currents in the 1-500 microamp ranges are required, please consult Teccor's sensitive gate SCR technical data sheets.

### Electrically Isolated Packages

Teccor's SCR's are available in a choice of 8 different device packages. Four of the 8 packages are offered in electrically isolated construction where the case or tab is internally isolated to allow




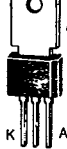

the use of low cost assembly and convenient packaging techniques.

The Teccor line of SCR's features glass passivated device junctions to insure long term device reliability and parameter stability. Teccor's glass offers a rugged, reliable barrier against junction contamination.

### Features

- Electrically Isolated Packages
- High Voltage Capability — 30-600 Volts
- High Surge Capability — up to 950 Amps
- Glass Passivated Chip

# SCR's—Non Sensitive Gate

TYPE	Part Number					IT		VDRM & VRRM	IGT		IDRM & IRRM			VTM	VGT	
	Isolated		Non-Isolated			Maximum On-State Current (1) (2)		Repetitive Peak Off-State Forward & Reverse Voltage	DC Gate-Trigger Current VD = 12 VDC RL = 60Ω (4) (12)	Peak Off-State Forward & Reverse Current @ VDRM & VRRM			Peak On-State Voltage at Max Rated RMS Current TC = 25°C (3)	DC Gate-Trigger Voltage VD = 12 VDC RL = 60Ω (8) (13)		
						Amps				mA				Volts		
	TO-92	TO-220AB	TO-202AB	TO-202AB	NON-ISOLATED TO-220AB	IT(RMS)	IT(AV)	Volts		mA			Volts	TC = 25°C	TC = 100°C	TC = 125°C
FOR DIMENSIONAL OUTLINES & PACKAGE VARIATIONS SEE PAGE 67						MAX	MAX	MIN	MIN	MAX	MAXIMUM			MAX	MAX	MIN
1 Amp	S031E					1.0	0.64	30	1	10	.01	0.2	0.5	1.6	1.5	0.2
	S051E					1.0	0.64	50	1	10	.01	0.2	0.5	1.6	1.5	0.2
	S101E					1.0	0.64	100	1	10	.01	0.2	0.5	1.6	1.5	0.2
	S201E					1.0	0.64	200	1	10	.01	0.2	0.5	1.6	1.5	0.2
	S401E					1.0	0.64	400	1	10	.01	0.2	0.5	1.6	1.5	0.2
	S601E					1.0	0.64	600	1	10	.01	0.2	0.5	1.6	1.5	0.2
1.6 Amps		S0301L				1.6	1.0	30	1	10	.01	0.2	0.5	1.6	1.5	0.2
		S0501L				1.6	1.0	50	1	10	.01	0.2	0.5	1.6	1.5	0.2
		S1001L				1.6	1.0	100	1	10	.01	0.2	0.5	1.6	1.5	0.2
		S2001L				1.6	1.0	200	1	10	.01	0.2	0.5	1.6	1.5	0.2
		S4001L				1.6	1.0	400	1	10	.01	0.2	0.5	1.6	1.5	0.2
		S6001L				1.6	1.0	600	1	10	.01	0.2	0.5	1.6	1.5	0.2
3 Amps		S0303L				3.0	1.9	30	1	10	.01	0.2	0.5	1.6	1.5	0.2
		S0503L				3.0	1.9	50	1	10	.01	0.2	0.5	1.6	1.5	0.2
		S1003L				3.0	1.9	100	1	10	.01	0.2	0.5	1.6	1.5	0.2
		S2003L				3.0	1.9	200	1	10	.01	0.2	0.5	1.6	1.5	0.2
		S4003L				3.0	1.9	400	1	10	.01	0.2	0.5	1.6	1.5	0.2
		S6003L				3.0	1.9	600	1	10	.01	0.2	0.5	1.6	1.5	0.2
4 Amps			S0304F1	S0304N1		4.0	2.5	30	1	10	.01	0.2	0.5	1.6	1.5	0.2
			S0504F1	S0504N1		4.0	2.5	50	1	10	.01	0.2	0.5	1.6	1.5	0.2
			S1004F1	S1004N1		4.0	2.5	100	1	10	.01	0.2	0.5	1.6	1.5	0.2
			S2004F1	S2004N1		4.0	2.5	200	1	10	.01	0.2	0.5	1.6	1.5	0.2
			S4004F1	S4004N1		4.0	2.5	400	1	10	.01	0.2	0.5	1.6	1.5	0.2
			S6004F1	S6004N1		4.0	2.5	600	1	10	.01	0.2	0.5	1.6	1.5	0.2
6 Amps		S0306L	S0306F1			6.0	3.8	30	1	15	.01	0.2	0.5	1.6	1.5	0.2
		S0506L	S0506F1			6.0	3.8	50	1	15	.01	0.2	0.5	1.6	1.5	0.2
		S1006L	S1006F1			6.0	3.8	100	1	15	.01	0.2	0.5	1.6	1.5	0.2
		S2006L	S2006F1			6.0	3.8	200	1	15	.01	0.2	0.5	1.6	1.5	0.2
		S4006L	S4006F1			6.0	3.8	400	1	15	.01	0.2	0.5	1.6	1.5	0.2
		S6006L	S6006F1			6.0	3.8	600	1	15	.01	0.2	0.5	1.6	1.5	0.2
8 Amps		S0308L	S0308F1		S0308R	8.0	5.1	30	1	15	.01	0.2	0.5	1.6	1.5	0.2
		S0508L	S0508F1		S0508R	8.0	5.1	50	1	15	.01	0.2	0.5	1.6	1.5	0.2
		S1008L	S1008F1		S1008R	8.0	5.1	100	1	15	.01	0.2	0.5	1.6	1.5	0.2
		S2008L	S2008F1		S2008R	8.0	5.1	200	1	15	.01	0.2	0.5	1.6	1.5	0.2
		S4008L	S4008F1		S4008R	8.0	5.1	400	1	15	.01	0.2	0.5	1.6	1.5	0.2
		S6008L	S6008F1		S6008R	8.0	5.1	600	1	15	.01	0.2	0.5	1.6	1.5	0.2
					C122F	8.0	5.1	50		25	0.1	0.5		1.83	1.5	0.2
					C122A	8.0	5.1	100		25	0.1	0.5		1.83	1.5	0.2
					C122B	8.0	5.1	200		25	0.1	0.5		1.83	1.5	0.2
					C122C	8.0	5.1	300		25	0.1	0.5		1.83	1.5	0.2
					C122D	8.0	5.1	400		25	0.1	0.5		1.83	1.5	0.2
					C122E	8.0	5.1	500		25	0.1	0.5		1.83	1.5	0.2
				C122M	8.0	5.1	600		25	0.1	0.5		1.83	1.5	0.2	


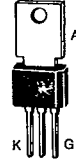
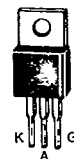
## GENERAL NOTES

- Teccor's 2N6394 Series, 2N6400 Series, and 2N6504 Series devices conform to all JEDEC registered data.
- All measurements are made at 60 Hz with a resistive load at an ambient temperature of +25°C unless otherwise specified.
- Operating temperature range (TJ) is -65°C to +125°C for TO-92 devices, 0°C to +125°C for Fastpak, and -40°C to +125°C for all other packages.

- Storage temperature range (TS) is -65°C to +150°C for TO-92 devices, -40°C to +150°C for TO-202 and TO-220 devices, -20°C to +125°C for Fastpak and -40°C to +125°C for all others.
- Lead solder temperature is a maximum of 230°C for 10 seconds maximum; 1/16" from case.
- The case temperature (TC) is measured as shown on dimensional outline drawings. See "package dimensions" section of catalog.



# SCR's—Non Sensitive Gate

TYPE	Part Number			I <sub>T</sub>		V <sub>DRM</sub> & V <sub>RRM</sub>	I <sub>GT</sub>		I <sub>DRM</sub> & I <sub>RRM</sub>			V <sub>TM</sub>	V <sub>GT</sub>	
	Isolated	Non-Isolated		Amps		Repetitive Peak Off-State Forward & Reverse Voltage	DC Gate-Trigger Current V <sub>D</sub> = 12 VDC R <sub>L</sub> = 60Ω (4)	Peak Off-State Forward & Reverse Current @ V <sub>DRM</sub> & V <sub>RRM</sub>			Peak On-State Voltage at Max Rated RMS Current T <sub>C</sub> = 25°C (3)	DC Gate-Trigger Voltage V <sub>D</sub> = 12 VDC R <sub>L</sub> = 60Ω (8)		
				I <sub>T(RMS)</sub>	I <sub>T(AV)</sub>			mA				Volts		
	TO-220AB	TO-202AB	NON-ISOLATED TO-220AB			Volts	mA	T <sub>C</sub> = 25°C	T <sub>C</sub> = 100°C	T <sub>C</sub> = 125°C	Volts	T <sub>C</sub> = 25°C	T <sub>C</sub> = 125°C	
FOR DIMENSIONAL OUTLINES & PACKAGE VARIATIONS SEE PAGE 67				MAX	MAX	MIN	MIN	MAX	MAXIMUM			MAX	MAX	MIN
10 Amps	S0310L	S0310F1		10	6.4	30	1	15	.01	0.2	0.5	1.6	1.5	0.2
	S0510L	S0510F1		10	6.4	50	1	15	.01	0.2	0.5	1.6	1.5	0.2
	S1010L	S1010F1		10	6.4	100	1	15	.01	0.2	0.5	1.6	1.5	0.2
	S2010L	S2010F1		10	6.4	200	1	15	.01	0.2	0.5	1.6	1.5	0.2
	S4010L	S4010F1		10	6.4	400	1	15	.01	0.2	0.5	1.6	1.5	0.2
	S6010L	S6010F1		10	6.4	600	1	15	.01	0.2	0.5	1.6	1.5	0.2
			S2800F	10	6.4	50		15		2.0		2.0*	1.5	
			S2800A	10	6.4	100		15		2.0		2.0*	1.5	
			S2800B	10	6.4	200		15		2.0		2.0*	1.5	
			S2800C	10	6.4	300		15		2.0		2.0*	1.5	
12 Amps	S0312L		S0312R	12	7.6	30	1	20	.01	0.5	1.0	1.6	1.5	0.2
	S0512L		S0512R	12	7.6	50	1	20	.01	0.5	1.0	1.6	1.5	0.2
	S1012L		S1012R	12	7.6	100	1	20	.01	0.5	1.0	1.6	1.5	0.2
	S2012L		S2012R	12	7.6	200	1	20	.01	0.5	1.0	1.6	1.5	0.2
	S4012L		S4012R	12	7.6	400	1	20	.01	0.5	1.0	1.6	1.5	0.2
	S6012L		S6012R	12	7.6	600	1	20	.01	0.5	1.0	1.6	1.5	0.2
			2N6394	12	7.6	50		30	.01		2.0	2.2	1.5	0.2
			2N6395	12	7.6	100		30	.01		2.0	2.2	1.5	0.2
			2N6396	12	7.6	200		30	.01		2.0	2.2	1.5	0.2
			2N6397	12	7.6	400		30	.01		2.0	2.2	1.5	0.2
15 Amps	S0315L			15	9.5	30	1	30	.01	0.5	1.0	1.6	1.5	0.2
	S0515L			15	9.5	50	1	30	.01	0.5	1.0	1.6	1.5	0.2
	S1015L			15	9.5	100	1	30	.01	0.5	1.0	1.6	1.5	0.2
	S2015L			15	9.5	200	1	30	.01	0.5	1.0	1.6	1.5	0.2
	S4015L			15	9.5	400	1	30	.01	0.5	1.0	1.6	1.5	0.2
	S6015L			15	9.5	600	1	30	.01	0.5	1.0	1.6	1.5	0.2
16 Amps			S0316R	16	10	30	1	30	.01	0.5	1.0	1.6	1.5	0.2
			S0516R	16	10	50	1	30	.01	0.5	1.0	1.6	1.5	0.2
			S1016R	16	10	100	1	30	.01	0.5	1.0	1.6	1.5	0.2
			S2016R	16	10	200	1	30	.01	0.5	1.0	1.6	1.5	0.2
			S4016R	16	10	400	1	30	.01	0.5	1.0	1.6	1.5	0.2
			S6016R	16	10	600	1	30	.01	0.5	1.0	1.6	1.5	0.2
			2N6400	16	10	50		30	.01		2.0	1.7	1.5	0.2
			2N6401	16	10	100		30	.01		2.0	1.7	1.5	0.2
			2N6402	16	10	200		30	.01		2.0	1.7	1.5	0.2
			2N6403	16	10	400		30	.01		2.0	1.7	1.5	0.2
20 Amps			2N6404	16	10	600		30	.01		2.0	1.7	1.5	0.2
	S0320L			20	13	30	1	30	.01	0.5	1.0	1.6	1.5	0.2
	S0520L			20	13	50	1	30	.01	0.5	1.0	1.6	1.5	0.2
	S1020L			20	13	100	1	30	.01	0.5	1.0	1.6	1.5	0.2
	S2020L			20	13	200	1	30	.01	0.5	1.0	1.6	1.5	0.2
	S4020L			20	13	400	1	30	.01	0.5	1.0	1.6	1.5	0.2
			S6020L	20	13	600	1	30	.01	0.5	1.0	1.6	1.5	0.2

\*V<sub>TM</sub> @ I<sub>T</sub> = 30A<sub>pk</sub>

**GENERAL NOTES**






- Teccor's 2N6394 Series, 2N6400 Series, and 2N6504 Series devices conform to all JEDEC registered data.
- All measurements are made at 60 Hz with a resistive load at an ambient temperature of +25°C unless otherwise specified.
- Operating temperature range (T<sub>J</sub>) is -65°C to +125°C for TO-92 devices, 0°C to +125°C for Fastpak, and -40°C to +125°C for all other packages.
- Storage temperature range (T<sub>S</sub>) is -65°C to +150°C for TO-92 devices, -40°C to +150°C for TO-202 and TO-220 devices, -20°C to +125°C for Fastpaks and -40°C to +125°C for all others.
- Lead solder temperature is a maximum of 230°C for 10 seconds maximum; 1/16" from case.
- The case temperature (T<sub>C</sub>) is measured as shown on dimensional outline drawings. See "package dimensions" section of catalog.

**NOTES FOR JEDEC DEVICES**

- 2N6400-6405 series of devices also conform to the following specifications
  - Maximum V<sub>GT</sub> = 2.5 volts @ -40°C
  - Maximum I<sub>H</sub> = 60 milliamps @ -40°C
- 2N6504-6508 series of devices also conform to the following specifications:
  - Maximum V<sub>GT</sub> = 1.5 volts @ -40°C
  - Maximum I<sub>GT</sub> = 75 milliamps @ -40°C
  - Maximum I<sub>H</sub> = 40 milliamps @ -40°C



# SCR's—Non Sensitive Gate

TYPE	Part Number					IT		VDRM & VRRM		IGT		IDRM & IRRM			VTM		VGT	
	Isolated			Non-Isolated		Maximum On-State Current (1)		Repetitive Peak Off-State Forward & Reverse Voltage	DC Gate-Trigger Current VD = 12 VDC RL = 60Ω (4)	Peak Off-State Forward & Reverse Current @ VDRM & VRRM			Peak On-State Voltage at Max Rated RMS Current TC = 25°C (3)	DC Gate-Trigger Voltage VD = 12 VDC RL = 60Ω (8)				
	 TO-220AB	 TO-218	 FASTPAK TO-3 BASE	 NON-ISOLATED TO-220AB	 NON-ISOLATED TO-218	Amps				Volts	mA	mA			Volts	Volts		
						IT(RMS)	IT(AV)	TC = 25°C	TC = 100°C			TC = 125°C	TC = 25°C	TC = 125°C				
FOR DIMENSIONAL OUTLINES & PACKAGE VARIATIONS SEE PAGE 67						MAX	MAX	MIN	MIN	MAX	MAXIMUM			MAX	MAX	MIN		
25 Amps	S0325L			S0325R	25	16	30	1	30	.01	1.0	2.0	1.6	1.5	0.2			
	S0525L			S0525R	25	16	50	1	30	.01	1.0	2.0	1.6	1.5	0.2			
	S1025L			S1025R	25	16	100	1	30	.01	1.0	2.0	1.6	1.5	0.2			
	S2025L			S2025R	25	16	200	1	30	.01	1.0	2.0	1.6	1.5	0.2			
	S4025L			S4025R	25	16	400	1	30	.01	1.0	2.0	1.6	1.5	0.2			
	S6025L			S6025R	25	16	600	1	30	.01	1.0	2.0	1.6	1.5	0.2			
				2N6504	25	16	50		40	.01		2.0	1.8		0.2			
				2N6505	25	16	100		40	.01		2.0	1.8		0.2			
				2N6506	25	16	200		40	.01		2.0	1.8		0.2			
				2N6507	25	16	400		40	.01		2.0	1.8		0.2			
			2N6508	25	16	600		40	.01		2.0	1.8		0.2				
35 Amps		S0335J		S0335W	35	22	30	5	40	.01	1.0	2.0	1.8	1.5	0.2			
		S0535J		S0535W	35	22	50	5	40	.01	1.0	2.0	1.8	1.5	0.2			
		S1035J		S1035W	35	22	100	5	40	.01	1.0	2.0	1.8	1.5	0.2			
		S2035J		S2035W	35	22	200	5	40	.01	1.0	2.0	1.8	1.5	0.2			
		S4035J		S4035W	35	22	400	5	40	.01	1.0	2.0	1.8	1.5	0.2			
		S6035J		S6035W	35	22	600	5	40	.01	1.0	2.0	1.8	1.5	0.2			
50 Amps		S0550J			50	32	50	5	40	.01	1.0	2.0	1.8	1.5	0.2			
		S1050J			50	32	100	5	40	.01	1.0	2.0	1.8	1.5	0.2			
		S2050J			50	32	200	5	40	.01	1.0	2.0	1.8	1.5	0.2			
		S4050J			50	32	400	5	40	.01	1.0	2.0	1.8	1.5	0.2			
		S6050J			50	32	600	5	40	.01	1.0	2.0	1.8	1.5	0.2			
55 Amps				S0555W	55	35	50	5	40	.01	1.0	2.0	1.8	1.5	0.2			
				S1055W	55	35	100	5	40	.01	1.0	2.0	1.8	1.5	0.2			
				S2055W	55	35	200	5	40	.01	1.0	2.0	1.8	1.5	0.2			
				S4055W	55	35	400	5	40	.01	1.0	2.0	1.8	1.5	0.2			
				S6055W	55	35	600	5	40	.01	1.0	2.0	1.8	1.5	0.2			
65 Amps				S0565P	65	41	50	5	50	.02	1.5	3.0	1.8	2.0	0.2			
				S1065P	65	41	100	5	50	.02	1.5	3.0	1.8	2.0	0.2			
				S2065P	65	41	200	5	50	.02	1.5	3.0	1.8	2.0	0.2			
				S4065P	65	41	400	5	50	.02	1.5	3.0	1.8	2.0	0.2			
				S6065P	65	41	600	5	50	.02	1.5	3.0	1.8	2.0	0.2			
		S0565J			65	41	50	5	50	.02	1.5	3.0	1.8	2.0	0.2			
		S1065J			65	41	100	5	50	.02	1.5	3.0	1.8	2.0	0.2			
		S2065J			65	41	200	5	50	.02	1.5	3.0	1.8	2.0	0.2			
		S4065J			65	41	400	5	50	.02	1.5	3.0	1.8	2.0	0.2			
		S6065J			65	41	600	5	50	.02	1.5	3.0	1.8	2.0	0.2			
70 Amps				S0570W	70	45	50	5	50	.02	1.5	3.0	1.8	2.0	0.2			
				S1070W	70	45	100	5	50	.02	1.5	3.0	1.8	2.0	0.2			
				S2070W	70	45	200	5	50	.02	1.5	3.0	1.8	2.0	0.2			
				S4070W	70	45	400	5	50	.02	1.5	3.0	1.8	2.0	0.2			
				S6070W	70	45	600	5	50	.02	1.5	3.0	1.8	2.0	0.2			

**GENERAL NOTES**









- Teccor's 2N6394 Series, 2N6400 Series, and 2N6504 Series devices conform to all JEDEC registered data.
- All measurements are made at 60 Hz with a resistive load at an ambient temperature of +25°C unless otherwise specified.
- Operating temperature range (TJ) is -65°C to +125°C for TO-92 devices, 0°C to +125°C for Fastpak, and -40°C to +125°C for all other packages.
- Storage temperature range (TS) is -65°C to +150°C for TO-92 devices, -40°C to +150°C for TO-202 and TO-220 devices, -20°C to +125°C for Fastpaks, and -40°C to +125°C for all others.
- Lead solder temperature is a maximum of 230°C for 10 seconds maximum; 1/16" from case.
- The case temperature (TC) is measured as shown on dimensional outline drawings. See "package dimensions" section of catalog.

**NOTES FOR JEDEC DEVICES**

- 2N6400-6405 series of devices also conform to the following specifications
  - Maximum VGT = 2.5 volts @ -40°C
  - Maximum IH = 60 milliamps @ -40°C
- 2N6504-6508 series of devices also conform to the following specifications
  - Maximum VGT = 1.5 volts @ -40°C
  - Maximum IGT = 75 milliamps @ -40°C
  - Maximum IH = 40 milliamps @ -40°C



# SCR's—Non Sensitive Gate

TYPE	THERMAL RESISTANCE (STEADY STATE)							
	$R_{\theta JC}/R_{\theta JA}$ °C/W (TYP.)							
								
	PLASTIC TO-92	THERMOTAB TO-220AB	TYPE 1 TO-202	TYPE 2 TO-202	NON-ISOLATED TO-220AB	ISOLATED TO-218X	NON-ISOLATED TO-218X	FASTPAK TO-3 BASE
1.0 Amp	50/145							
1.6 Amp		6.7						
3.0 Amp		6.3/50						
4.0 Amp			5.6/45	9.5/70				
6.0 Amp		4.0	4.3					
8.0 Amp		3.4	3.9		2.1/40			
10.0 Amp		3.0	3.4		1.9			
12.0 Amp		2.1			1.7			
15.0 Amp		1.95						
16.0 Amp					1.5			
20.0 Amp		1.8						
25 Amp		2.5			1.1			
35 Amp						.70	.50	
50 Amp						.80		
55 Amp							.53	
65 Amp						.86		.80
70 Amp							.60	

## ELECTRICAL ISOLATION

Most Teccor isolated SCR packages will withstand a minimum high potential test of 2500 VAC RMS from leads to case over the device's operating temperature range. See table for standard and optional isolation ratings.

ELECTRICAL ISOLATION FROM LEADS TO CASE					
U.L. RECOGNIZED FILE #71639					
VAC (RMS)	TYPE	TO-92	ISOLATED TO-220AB	ISOLATED TO-218	FASTPAK
1600		Standard	—	—	—
2500		No	Standard	Standard	Standard
4000		No	Optional*	No	No

\*For 4000V Isolation Use "V" Suffix

FIGURE 1A — Maximum Allowable Ambient Temperature vs RMS On-State Current

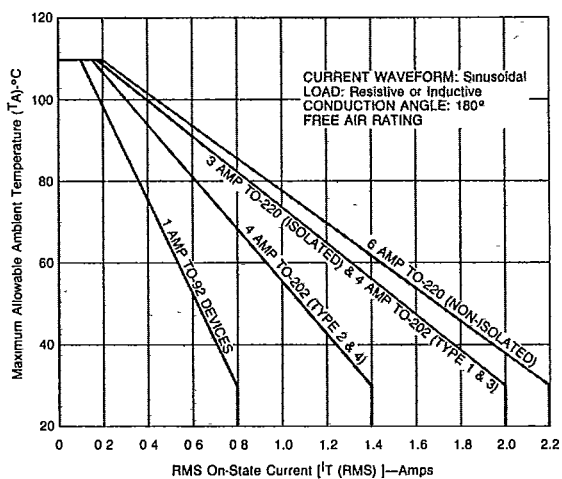
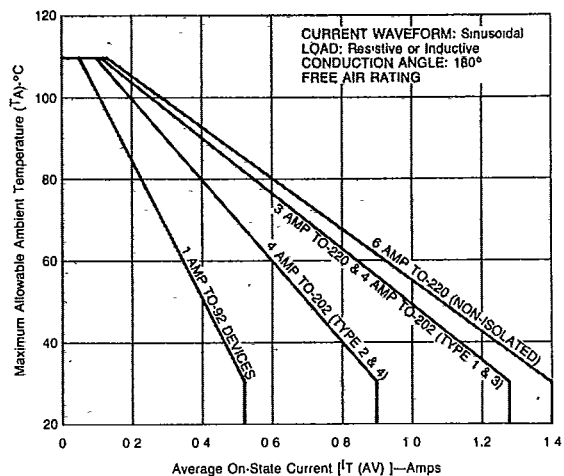


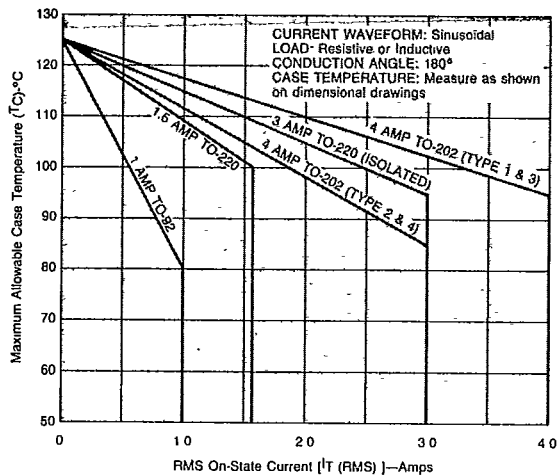
FIGURE 1B — Maximum Allowable Ambient Temperature vs Average On-State Current



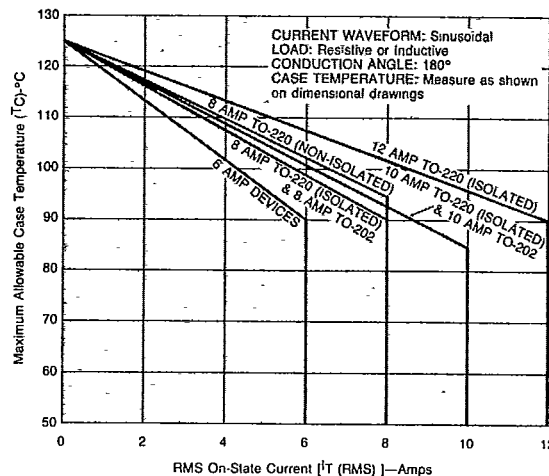


# SCR's—Non Sensitive Gate

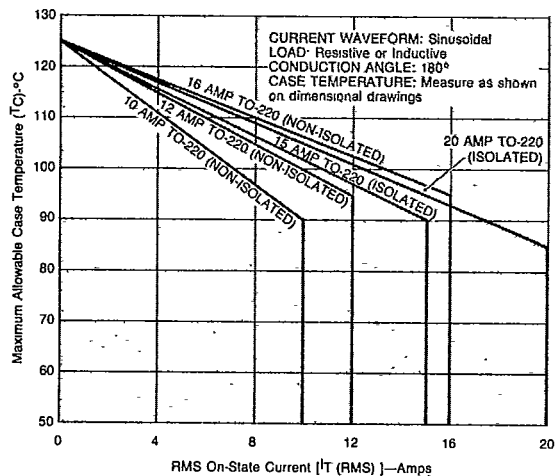
**FIGURE 2A — Maximum Allowable Case Temperature vs RMS On-State Current**



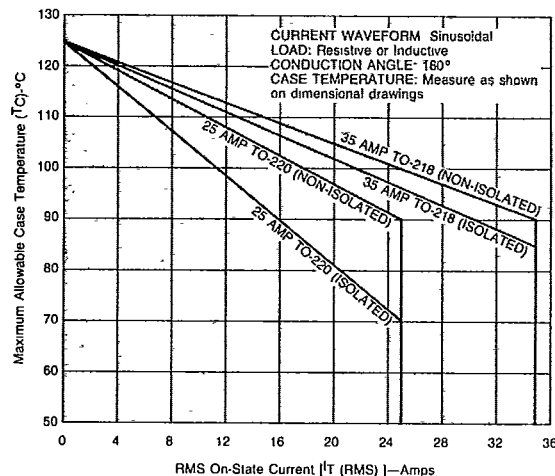
**FIGURE 2B — Maximum Allowable Case Temperature vs RMS On-State Current**



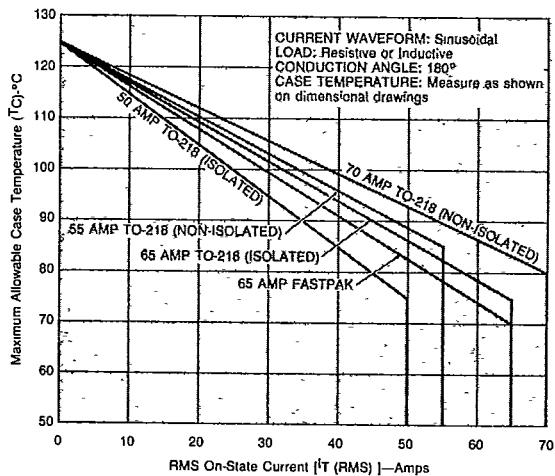
**FIGURE 2C — Maximum Allowable Case Temperature vs RMS On-State Current**



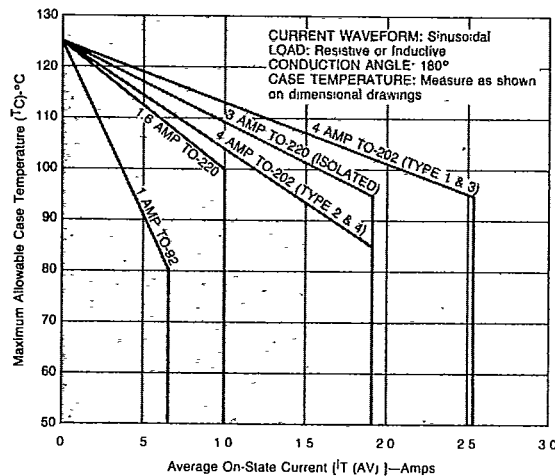
**FIGURE 2D — Maximum Allowable Case Temperature vs RMS On-State Current**



**FIGURE 2E — Maximum Allowable Case Temperature vs RMS On-State Current**

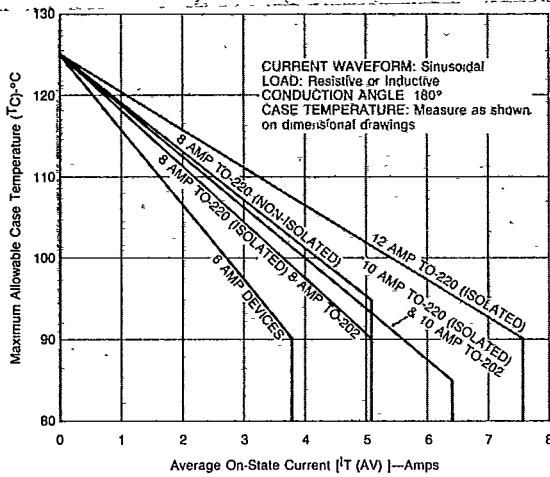


**FIGURE 3A — Maximum Allowable Case Temperature vs Average On-State Current**

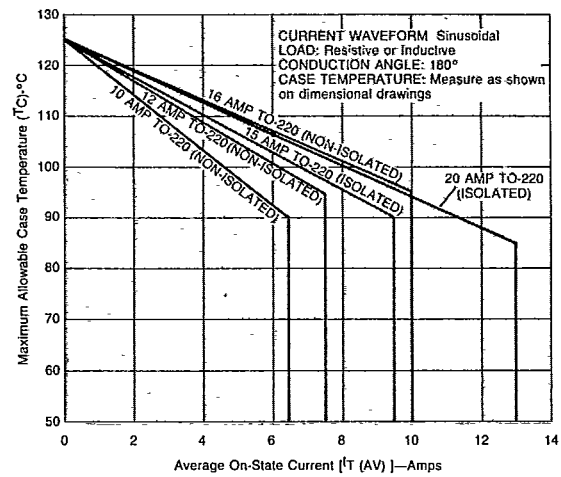


# SCR's—Non Sensitive Gate

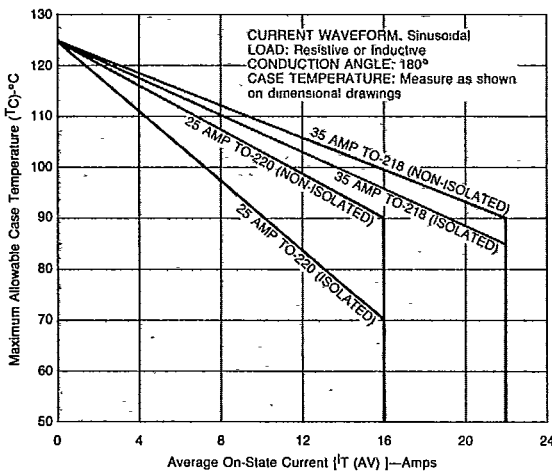
**FIGURE 3B — Maximum Allowable Case Temperature vs Average On-State Current**



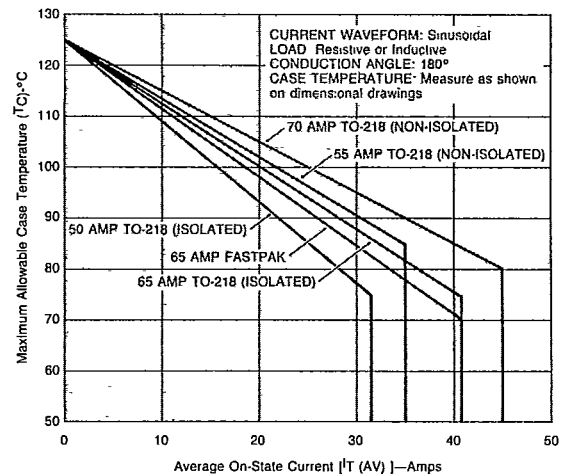
**FIGURE 3C — Maximum Allowable Case Temperature vs Average On-State Current**



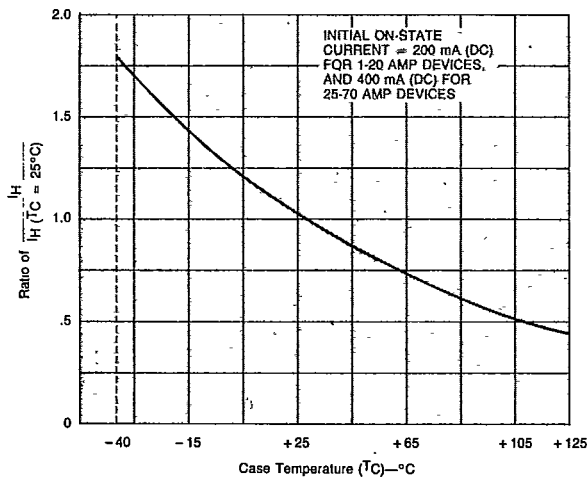
**FIGURE 3D — Maximum Allowable Case Temperature vs Average On-State Current**



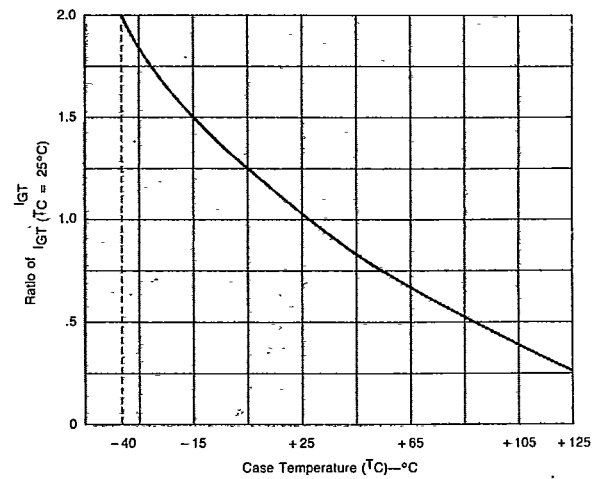
**FIGURE 3E — Maximum Allowable Case Temperature vs Average On-State Current**



**FIGURE 4 — Normalized DC Holding Current vs Case Temperature**

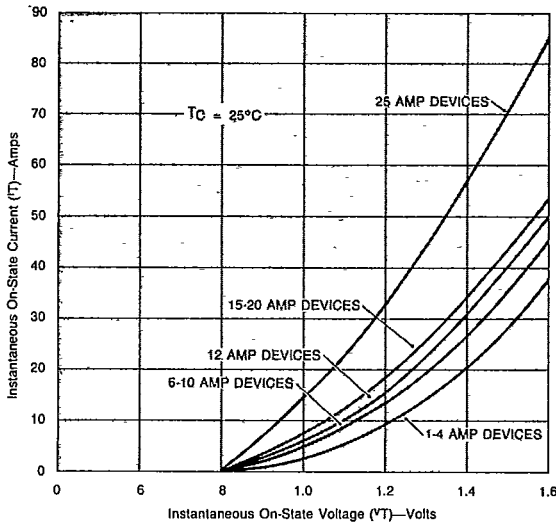


**FIGURE 5 — Normalized DC Gate-Trigger Current vs Case Temperature**

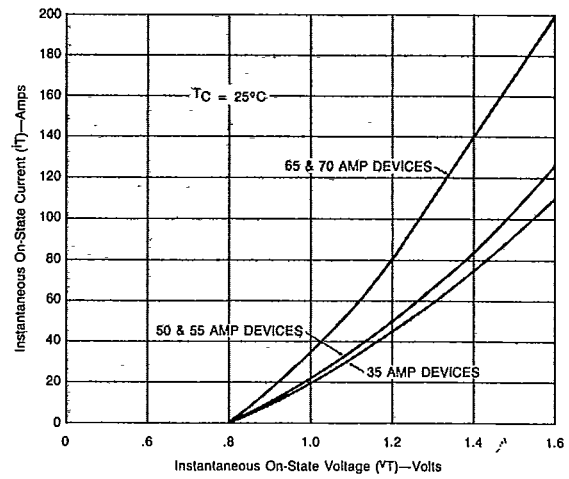


# SCR's—Non Sensitive Gate

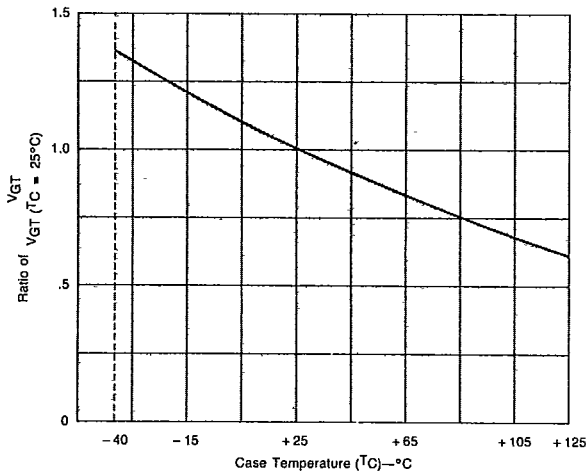
**FIGURE 6A — Instantaneous On-State Current vs On-State Voltage (Typical)**



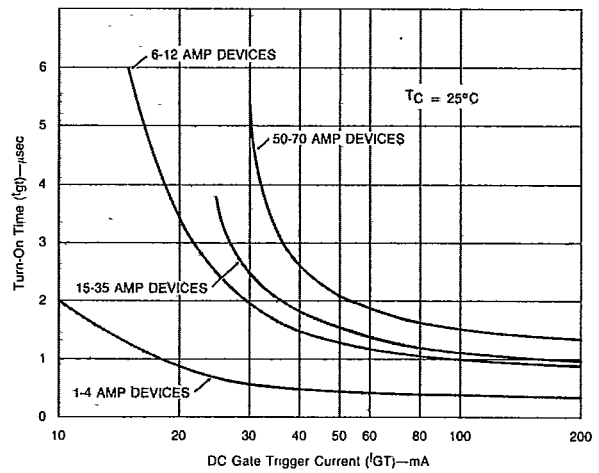
**FIGURE 6B — Instantaneous On-State Current vs On-State Voltage (Typical)**



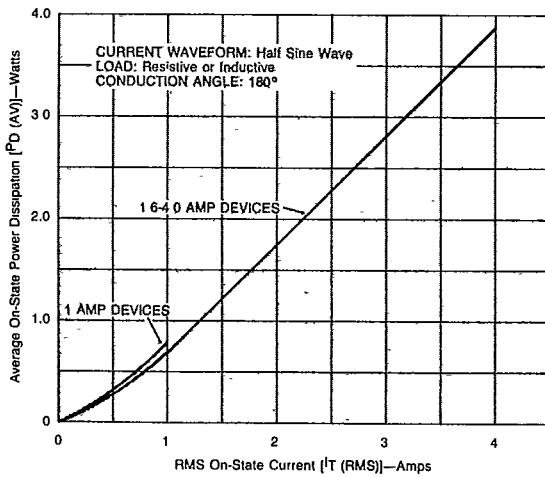
**FIGURE 7 — Normalized DC Gate-Trigger Voltage vs Case Temperature**



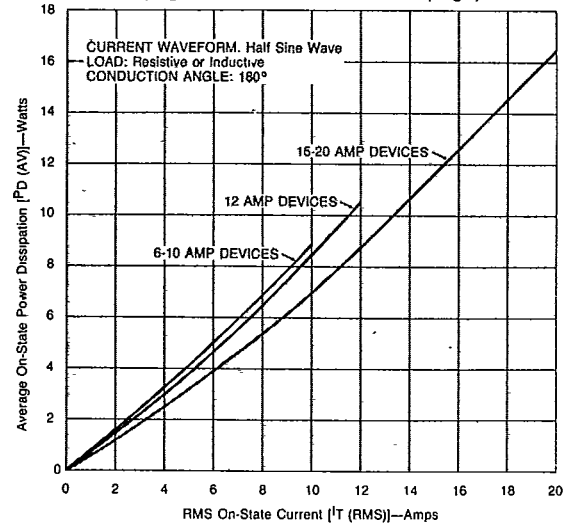
**FIGURE 8 — Typical Turn-On Time vs Gate Trigger Current**



**FIGURE 10A — Power Dissipation (Typical) vs RMS On-State Current**

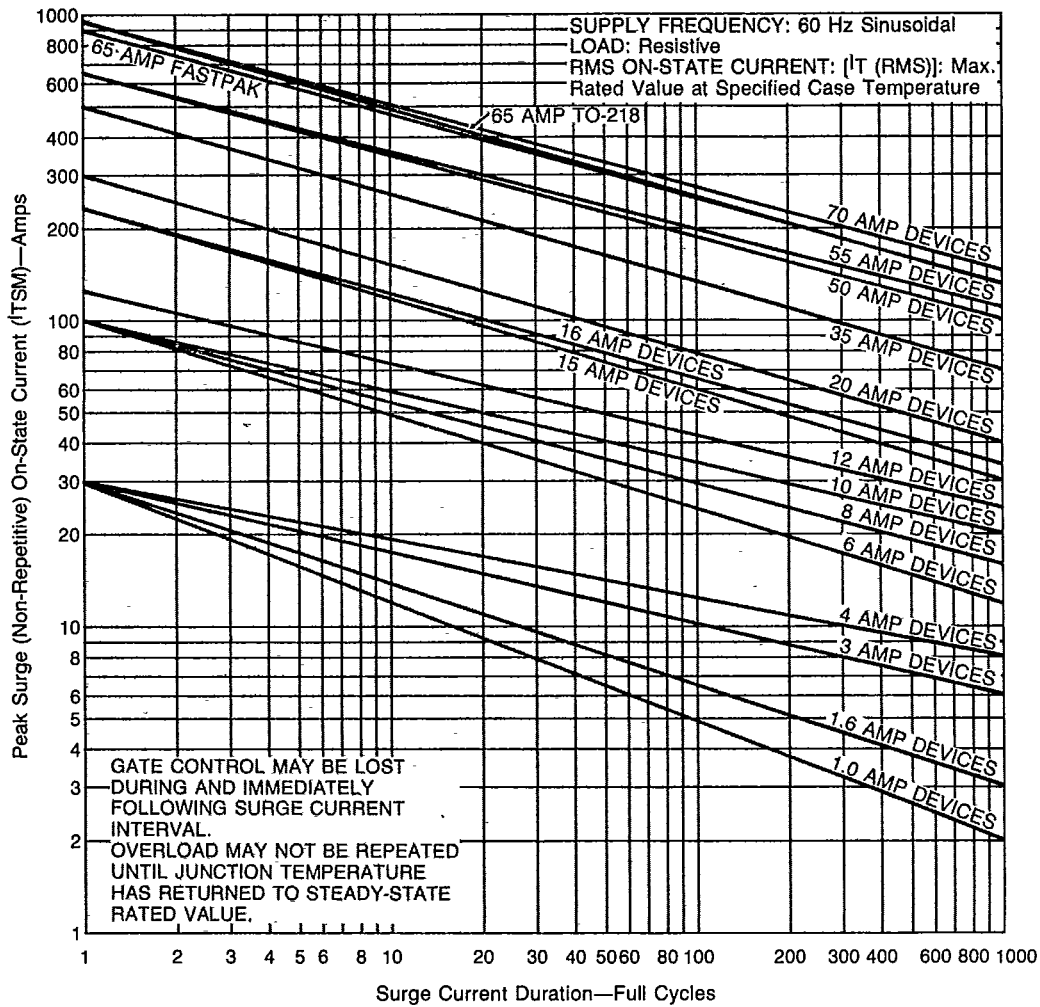


**FIGURE 10B — Power Dissipation (Typical) vs RMS On-State Current**  
(Figures 10C & 10D on next page)

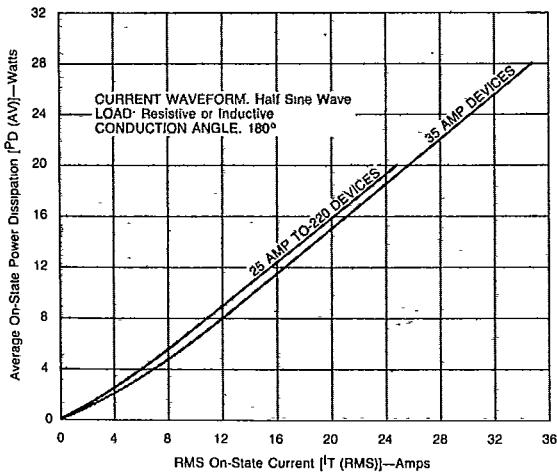


# SCR's—Non Sensitive Gate

**FIGURE 9 — Peak Surge Current vs Surge Current Duration**



**FIGURE 10C — Power Dissipation (Typical) vs RMS On-State Current**



**FIGURE 10D — Power Dissipation (Typical) vs RMS On-State Current**

