New Jersey Semi-Conductor Products, Inc.

20 STERN AVE. SPRINGFIELD, NEW JERSEY 07081 U.S.A. TELEPHONE: (973) 376-2922 (212) 227-6005 FAX: (973) 376-8960

# Model C106



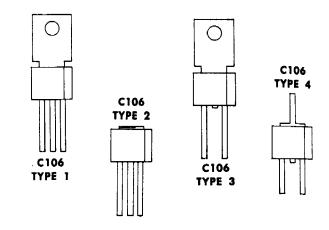
The Type C106 Silicon Controlled Rectifier (SCR) has the following outstanding features:

#### LOW COST

**SENSITIVE** Operates directly from low signal sensors such as thermistors, photo-conductive cells, etc.

**VERSATILE** Designed for a variety of mount-down methods—printed circuit, plug-in socket, screws, or point-to-point soldering

**RUGGED**, **COMPACT** Uses a solid plastic encapsulant in rectangular shape for high density packaging



(FULL SIZE)

#### TYPICAL APPLICATIONS **REMOTE CONTROL** Armchair TV Control **Electric Model Trains** MOTOR CONTROL Master Switching Stations for Sewing Machines Home **Movie Projectors** Garage Door Openers Food Mixers Power Switch **Electric Fans** Slot Racing Cars **Clothes Dryness Sensor** DRYNESS Flame Detectors LIGHT Moving-Light Signs (Chasers) Burglar Alarm PROXIMITY Driver for Computer Readout Touch Switch Lights **Electric Door Openers** Harbor Buoy Flashers Automotive Warning Systems Low Speed Ring Counters Nixie & Neon Drivers COUNTING Shift Registers Range Surface Unit (Hybrid) TEMPERATURE Chemical Processing **Relay Replacement** SWITCHING (Photographic, etc.) Solenoid Drivers Food Warmer Tray Latching Relay Replacement **Bearing Temperature Sensor Power Flip Flops** Electric Blanket Control Low Power Inverters Auto Oil Pressure Gage PRESSURE Thyratron Tube Replacement Hot Water Boiler Safety Monitor AMPLIFIERS Gate Amplifier for Larger SCR's, Triacs Photo Darkroom Exposure -Blenders TIME -Hand Tools **Oven** Timer Vending Machine Logic Industrial Process Control IGNITION Small Gas Engines Gas Appliances **Basement Sump Pump** LIQUID LEVEL Automatic Coffee Maker Voltage (Battery Charger) Automatic Shutoff for Vending DETECTION Current (Crowbar) Machines

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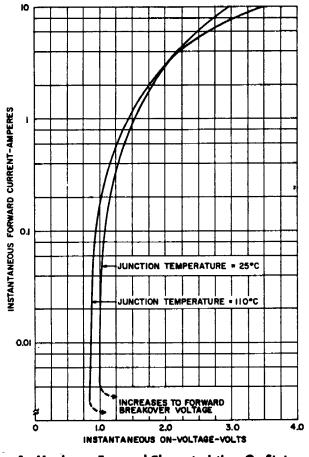
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## MAXIMUM ALLOWABLE RATINGS

C106

Туре	Repetitive Peak Forward Voltage, VFXM R <sub>GK</sub> = 1000 Ohm T <sub>J</sub> = -40 <sup>o</sup> C to +110	-	Working and Repetitive Peak Reverse Voltage, $V_{ROM}$ (wkg) and $V_{ROM}$ (rep) $T_J = -40^{\circ}C$ to +110 $^{\circ}C$
C106Q1, C106Q2, C106Q3, C106Q4	15 Volts		15 Volts
C106Y1, C106Y2, C106Y3, C106Y4	30 Volts		30 Volts
C106F1, C106F2, C106F3, C106F4	50 Volts		50 Volts
C106A1, C106A2, C106A3, C106A4	100 Volts		100 Volts
C106B1, C106B2, C106B3, C106B4	200 Volts		200 Volts
C106C1, C106C2, C106C3, C106C4	300 Volts		300 Volts
C106D1, C106D2, C106D3, C106D4	400 Volts		400 Volts
C106E1, C106E2, C106E3, C106E4	500 Volts		500 Volts
C106M1, C106M2, C106M3, C106M4	600 Volts		600 Volts
RMS Forward Current, On-State		50 Amperes/Microsecono 75 Amperes	
		0.5 Ampere <sup>2</sup> seconds (for times > 1.5 Millisecond	
verage Gate Power, PG(AV) eak Gate Current, IGFM eak Reverse Gate Voltage, VGRM			0.2 Ampere
Storage Temperature, $T_{stg}$			40°C to +150°

\*This rating applies for operation at 60 Hz, 75°C maximum tab (or anode) lead temperature, switching from 80 volts peak, sinusoidal current pulse width 10  $\mu$ sec, minimum, 15  $\mu$ sec. maximum.



1. Maximum Forward Characteristics, On State