

<b>DISSIPATION:</b>		
At ambient temperature of 25°C .....	75 max	mW
At other ambient temperatures .....	See curve page 68	
<b>AMBIENT-TEMPERATURE RANGE:</b>		
Operating .....	-65 to 150	°C
Storage .....	-65 to 175	°C
<b>CASE TEMPERATURE:</b>		
For 10 seconds maximum .....	275 max	°C

**CHARACTERISTICS**

<i>Static Values</i>		
Peak-Point Current .....	50 ± 5%	ma
Valley-Point Current:		
Typical .....	2.5	ma
Maximum .....	3.5	ma
Peak-Point-to-Valley-Point Current Ratio:		
Minimum .....	13:1	
Typical .....	20:1	
Peak-Point Voltage .....	120 to 260	rav
Valley-Point Voltage .....	510 to 620	rav
Positive Voltage at peak-point ma = 52.5 .....	1100 to 1400	rav

<i>Dynamic Values</i>		
Terminal Valley-Point Capacitance:*		
Typical .....	10	pf
Maximum .....	30	pf
Total Series Inductance .....	0.6 max	nh
Total Series Resistance .....	2.6 max	ohms
Negative Resistance of Intrinsic Diode .....	2.6	ohms
Dissipation at positive mv = 1400, peak-point ma = 52.5 .....	73	rav
Rise Time for 20 per cent overdrive (dc forward voltage and driving pulse provided by constant-current sources) .....	2 max	nsec
Figure of Merit .....	0.9	ma/pf

\* At measured valley-point current of individual diode; includes case capacitance of 0.8 pf.



**SILICON RECTIFIER**

Hermetically sealed type used in power-supply applications at peak reverse voltages up to 200 volts. This type has a maximum average-forward-current rating of 750 milliamperes for resistive or inductive loads and 500

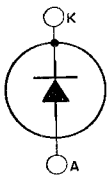
**1N3193**

milliamperes for capacitive loads. It is designed to meet stringent temperature-cycling and humidity requirements of critical applications. Package is similar to JEDEC No. TO-1; outline 21, Outlines Section. This type is identical with type 1N3196 except for the following items:

**MAXIMUM RATINGS**

*For power-supply frequency of 60 cps, single-phase operation*

	<i>Resistive or Inductive Load</i>	<i>Capacitive Load</i>	
PEAK REVERSE VOLTAGE .....	200 max	200 max	volts
RMS SUPPLY VOLTAGE .....	140 max	70 max	volts
AVERAGE FORWARD CURRENT:			
At ambient temperatures up to 75°C .....	750 max	500 max	ma
PEAK RECURRENT CURRENT .....	—	6 max	amperes



**SILICON RECTIFIER**

Hermetically sealed type used in power-supply applications at peak reverse voltages up to 400 volts. This type has a maximum average-forward-current rating of 750 milliamperes for resistive or inductive loads and 500

**1N3194**

milliamperes for capacitive loads. It is designed to meet stringent temperature-