

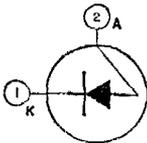
cycling and humidity requirements of critical applications. Package is similar to JEDEC No. TO-1; outline 22, Outlines Section. In addition, this type has a transparent, high-dielectric-strength plastic sleeve over the metal case and a protective coating to guard against the effects of severe environmental conditions. This type is electrically 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.....	1000 <i>max</i>	1000 <i>max</i>	volts
RMS SUPPLY VOLTAGE.....	700 <i>max</i>	350 <i>max</i>	volts
AVERAGE FORWARD CURRENT: At ambient temperatures up to 75°C.	400 <i>max</i>	800 <i>max</i>	ma
PEAK RECURRENT CURRENT.....	—	4 <i>max</i>	ampères

SILICON RECTIFIER



Hermetically sealed 125-milli-ampere type used in power-supply applications at peak reverse voltages up to 100 volts. This type is designed to meet stringent temperature-cycling and humidity requirements of critical

1N3754

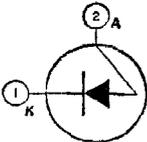
applications. Package is similar to JEDEC No. TO-1; outline 20, Outlines Section. This type is identical with type 1N3756 except for the following items:

MAXIMUM RATINGS

For power-supply frequency of 60 cps, single-phase operation, with capacitive load

PEAK REVERSE VOLTAGE.....	100 <i>max</i>	volts
RMS SUPPLY VOLTAGE.....	35 <i>max</i>	volts

SILICON RECTIFIER



Hermetically sealed 125-milli-ampere type used in power-supply applications at peak reverse voltages up to 200 volts. This type is designed to meet stringent temperature-cycling and humidity requirements of critical

1N3755

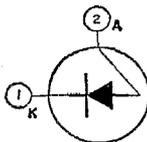
applications. Package is similar to JEDEC No. TO-1; outline 20, Outlines Section. This type is identical with type 1N3756 except for the following items:

MAXIMUM RATINGS

For power-supply frequency of 60 cps, single-phase operation, with capacitive load

PEAK REVERSE VOLTAGE.....	200 <i>max</i>	volts
RMS SUPPLY VOLTAGE.....	70 <i>max</i>	volts

SILICON RECTIFIER



Hermetically sealed 125-milli-ampere type used in power-supply applications at peak reverse voltages up to 400 volts. This type is designed to meet stringent temperature-cycling and humidity requirements of critical

1N3756

applications. Package is similar to JEDEC No. TO-1; outline 20, Outlines Section.

MAXIMUM RATINGS

For power-supply frequency of 60 cps, single-phase operation, with capacitive load

PEAK REVERSE VOLTAGE.....	400 max	volts
RMS SUPPLY VOLTAGE.....	140 max	volts
AVERAGE FORWARD CURRENT:		
At ambient temperatures up to 65°C.....	125 max	ma
At ambient temperatures above 65°C.....	See Rating Chart	
PEAK RECURRENT CURRENT.....	1.3 max	amperes
SURGE CURRENT:		
For turn-on time of 2 milliseconds duration.....	30 max	amperes
AMBIENT-TEMPERATURE RANGE:		
Operating.....	-65 to 100	°C
Storage.....	-65 to 175	°C
LEAD TEMPERATURE:		
For 10 seconds maximum.....	255 max	°C

CHARACTERISTICS

Maximum Forward Voltage Drop*.....	1	volt
Maximum Reverse Current:		
Dynamic†.....	0.3	ma
Static‡.....	0.005	ma

- * Instantaneous value at maximum average forward current and ambient temperature = 25°C.
- † Average value for one complete cycle at maximum peak reverse voltage, maximum average forward current, and ambient temperature = 65°C.
- ‡ DC value at maximum peak reverse voltage, average forward current = 0, and ambient temperature = 25°C.

