



Micro Commercial Components
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1N6095 thru 1N6096

Features

- Metal of siliconrectifier, majonty carrier conducton
- Guard ring for transient protection
- Low power loss high efficiency
- High surge capacity, High current capability

25 Amp Schottky

30 to 40 Volts

Maximum Ratings

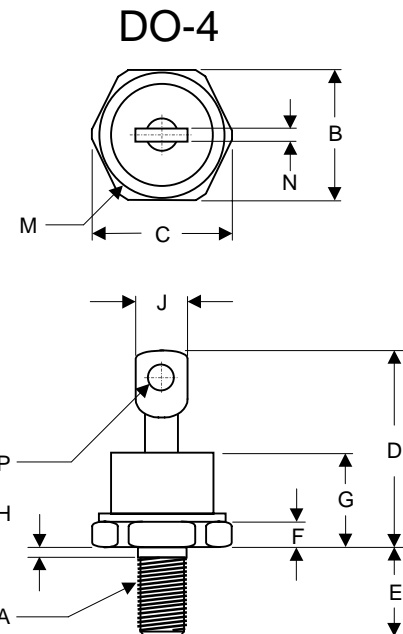
- Operating Junction Temperature: -65°C to +150°C
- Storage Temperature: -65°C to +150°C

| MCC Part Number | Maximum Recurrent Peak Reverse Voltage | Maximum RMS Voltage | Maximum DC Blocking Voltage |
|-----------------|--|---------------------|-----------------------------|
| 1N6095 | 30V | 21V | 30V |
| 1N6096 | 40V | 28V | 40V |

Electrical Characteristics @ 25°C Unless Otherwise Specified

| | | | |
|---|-------------|---------------|--|
| Average Forward Current | $I_{F(AV)}$ | 25 A | $T_A = 70^\circ\text{C}$ |
| Peak Forward Surge Current | I_{FSM} | 400A | 8.3ms, half sine |
| Maximum Instantaneous Forward Voltage | V_F | .86V | $I_{FM} = 78.5 \text{ A};$ $T_C = 70^\circ\text{C}$ |
| Maximum DC Reverse Current At Rated DC Blocking Voltage | I_R | 20mA 250mA | $T_A = 25^\circ\text{C}$ $T_A = 125^\circ\text{C}$ |

*Pulse Test: Pulse Width 300µsec, Duty Cycle 2%

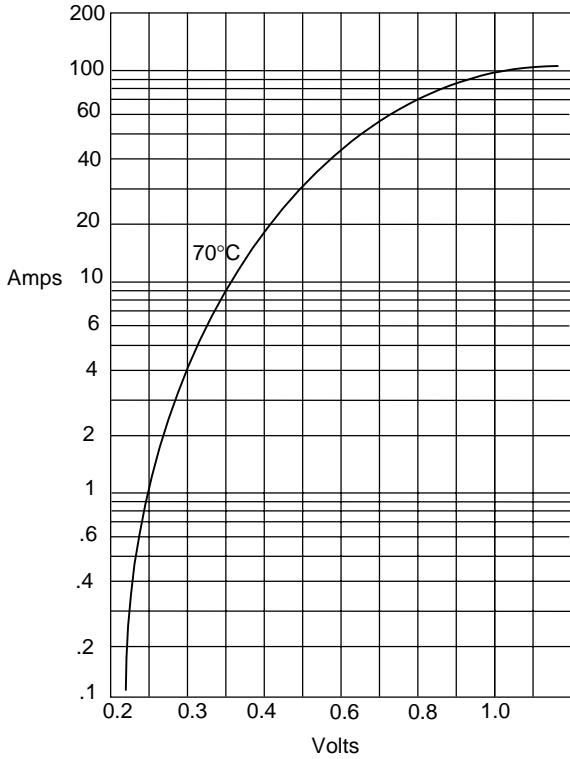


| DIM | DIMENSIONS | | | | NOTE |
|-----|---------------------|------|----------|----------|------|
| | INCH ES | | MM | | |
| | MIN | MAX | MIN | MAX | |
| A | 10-32 UNF3A Threads | | Standard | Polarity | |
| B | .424 | .437 | 10.77 | 11.10 | |
| C | ---- | .505 | ---- | 12.82 | |
| D | .600 | .800 | 15.24 | 20.32 | |
| E | .422 | .453 | 10.72 | 11.50 | |
| F | .075 | .175 | 1.91 | 4.44 | |
| G | ---- | .405 | ---- | 10.29 | |
| H | .163 | .189 | 4.15 | 4.80 | |
| J | ---- | .310 | ---- | 7.87 | |
| M | ---- | .350 | ---- | 8.89 | ∅ |
| N | .020 | .065 | 0.51 | 1.65 | |
| P | .060 | .100 | 1.53 | 2.54 | ∅ |

1N6095 thru 1N6096

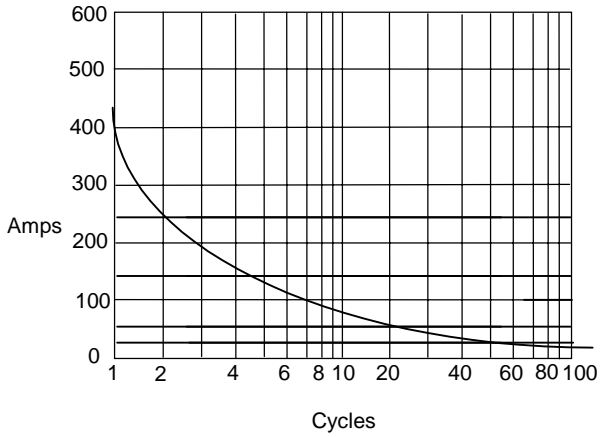


Figure 1
Typical Forward Characteristics



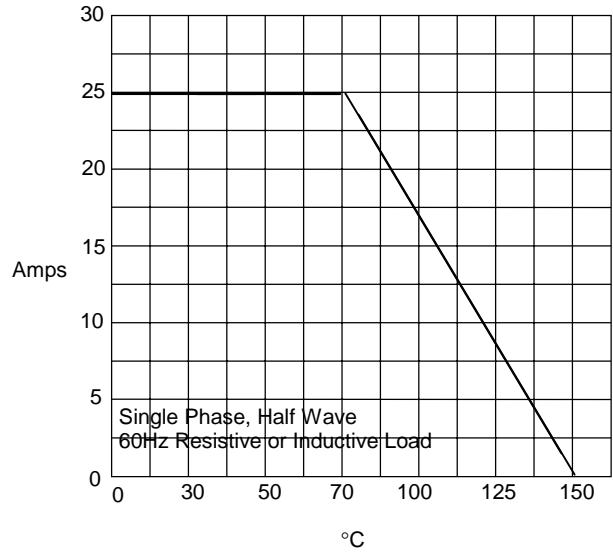
Instantaneous Forward Current - Amperes versus
Instantaneous Forward Voltage - Volts

Figure 3
Peak Forward Surge Current



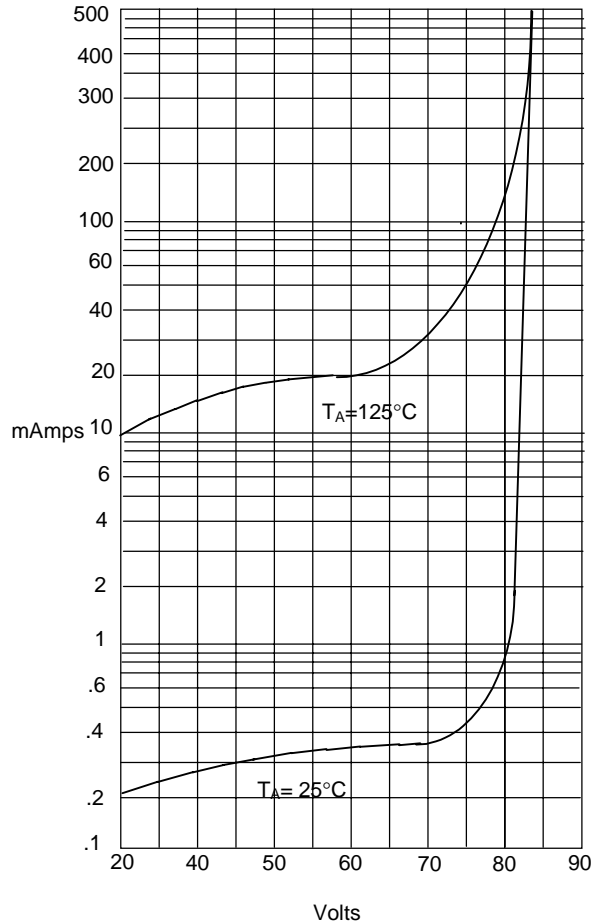
Peak Forward Surge Current - Amperes versus
Number Of Cycles At 60Hz - Cycles

Figure 2
Forward Derating Curve



Average Forward Rectified Current - Amperes versus
Ambient Temperature - °C

Figure 4
Typical Reverse Characteristics



Instantaneous Reverse Leakage Current - MicroAmperes versus
Percent Of Rated Peak Reverse Voltage - Volts