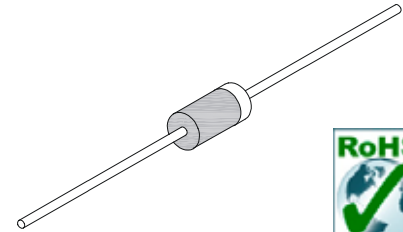


1.5Amp Standard Rectifiers

Features

- Low forward voltage drop
- High reliability
- High forward surge current capability
- High temperature soldering guaranteed: 250°C/10 seconds
/.0375", (9.5mm) lead lengths at 5lbs., (2.3kg) tension
- RoHS Compliant



DO-15



Mechanical Data

| | |
|---------------------------|--|
| Case: | Molded plastic |
| Epoxy: | Meets UL 94V-0 flammability rating |
| Terminals: | Axial leads, solderable per MIL-STD-202, Method 208 guaranteed |
| Polarity: | Cathode indicated by color band |
| Mounting position: | Any |
| Weight: | 0.014 ounce, 0.40 gram |

Maximum Ratings *(T_{Ambient}=25°C unless noted otherwise)*

| Symbol | Description | 1N5391J05 | 1N5392J1 | 1N5393J2 | 1N5395J4 | 1N5397J6 | 1N5398J8 | 1N5399J10 | Unit | Conditions |
|--------------------------|---------------------------------|------------|----------|----------|----------|----------|----------|-----------|------|---|
| V_{RRM} | Peak Repetitive Reverse Voltage | 50 | 100 | 200 | 400 | 600 | 800 | 1000 | V | |
| V_{RMS} | Max. RMS Voltage | 35 | 70 | 140 | 280 | 420 | 560 | 700 | V | |
| V_{DC} | Max. DC Blocking Voltage | 50 | 100 | 200 | 400 | 600 | 800 | 1000 | V | |
| I_{F(AV)} | Max. Average Rectified Current | 1.5 | | | | | | | A | .375" (9.5mm) lead length @ T _A = 75°C |
| I_{FSM} | Peak Forward Surge Current | 60 | | | | | | | A | 8.3 ms single half sine-wave superimposed on rated load |
| T_J | Operating Junction Range | -55 to 125 | | | | | | | °C | |
| T_{STG} | Storage Temperature Range | -55 to 150 | | | | | | | °C | |

1.5Amp Standard Rectifiers

1N5391J05-1N5399J10

Electrical Characteristics ($T_{Ambient}=25^{\circ}C$ unless noted otherwise)

| Symbol | Description | 1N5391J05 | 1N5392J1 | 1N5393J2 | 1N5395J4 | 1N5397J6 | 1N5398J8 | 1N5399J10 | Unit | Conditions |
|-----------------|---|-----------|----------|----------|----------|----------|----------|-----------|---------------|--|
| V_F | Max. Instantaneous Forward Voltage | 1.00 | | | | | | | V | $I_F(AV)=1.0A$ |
| C_J | Typical Junction Capacitance | 15 | | | | | | | pF | Measured at 1MHz and Applied Reverse Voltage of 4 Volts DC |
| I_R | Maximum DC Reverse Current at Rated DC Blocking Voltage | 5.0 | | | | | | | uA | $T_{amb}=25^{\circ}C$ |
| | | 50 | | | | | | | uA | $T_{amb}=100^{\circ}C$ |
| $R_{\theta-JA}$ | Max. Thermal Resistance | 50 | | | | | | | $^{\circ}C/W$ | note 1 |

Note: 1. Thermal resistance from Junction to Ambient at .375" (9.5mm) lead length.

Typical Characteristics Curves

Fig.1- Forward Current Derating Curve

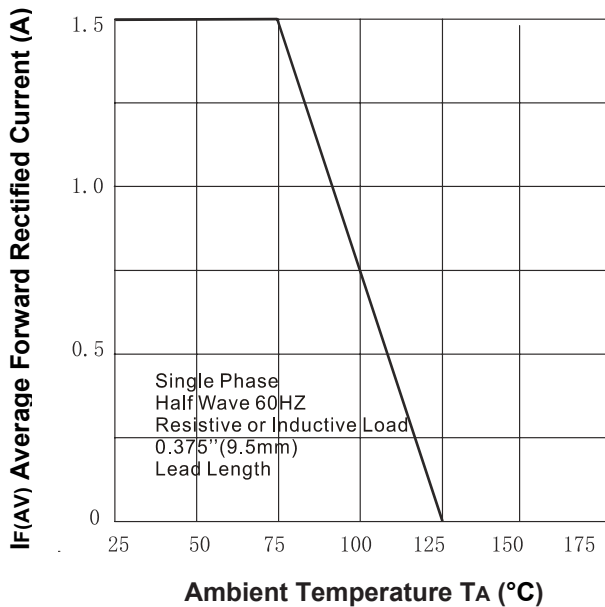
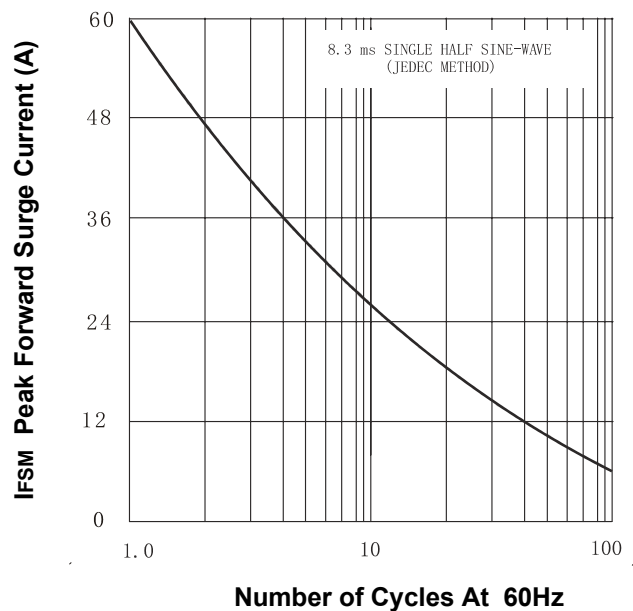


Fig.2- Max. Non-Repetitive Forward Surge Current



1.5Amp Standard Rectifiers

1N5391J05-1N5399J10

Fig.3- Typical Instantaneous Forward Characteristics

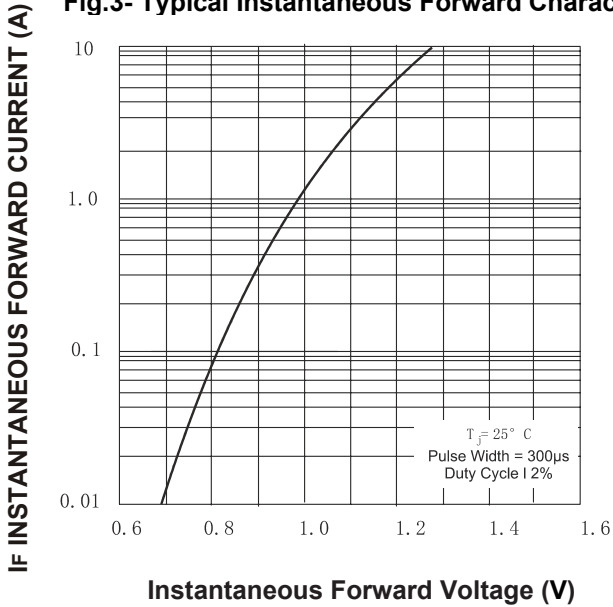


Fig.4- Typical Reverse Characteristics

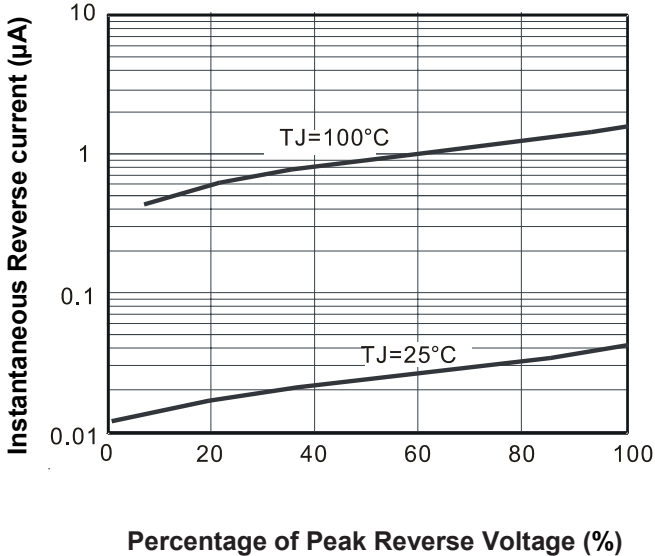
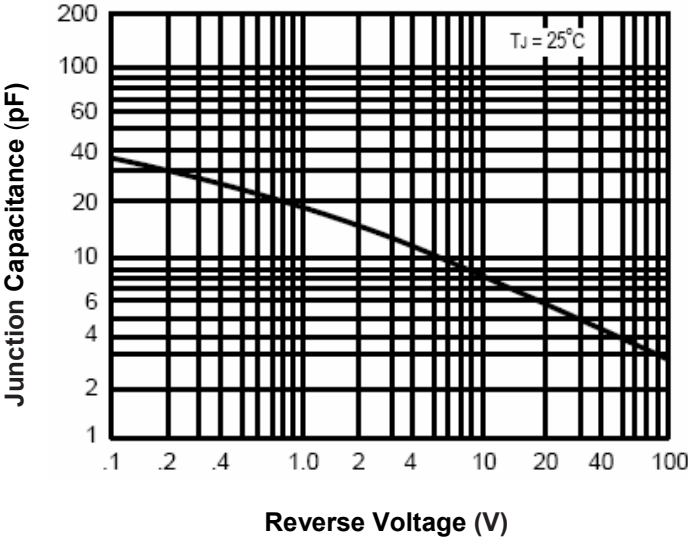


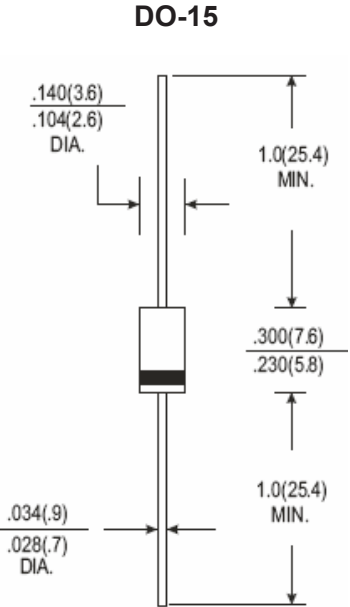
Fig.5- Typical Junction Capacitance



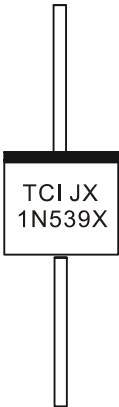
1.5Amp Standard Rectifiers

1N5391J05-1N5399J10

Dimensions in inch (mm)



Marking Information:

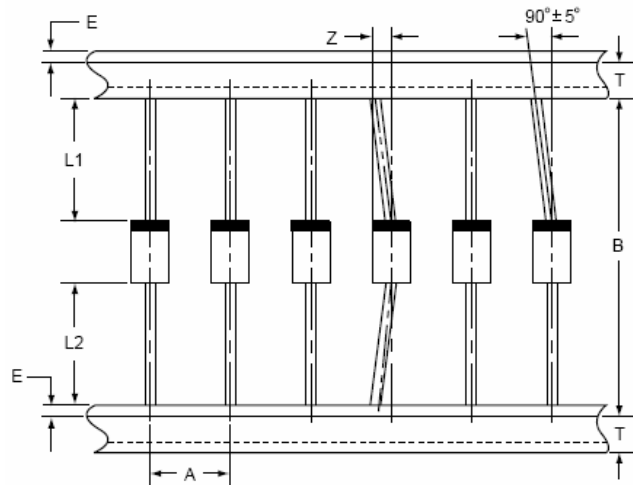


1.5Amp Standard Rectifiers

1N5391J05-1N5399J10

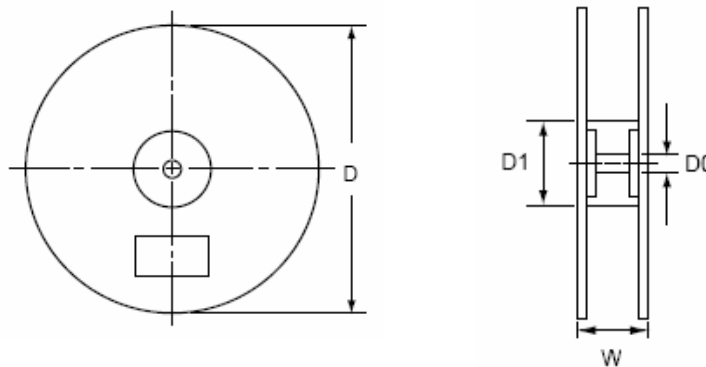
Packing Information:

Carrier Tape Dimensions (in mm)



| Components Outline | A | B | L1- L2 | T | E | Z |
|--------------------|-------|----------|---------|---------|---------|---------|
| DO-15 | 5±0.5 | 52.4±1.5 | Max.1.0 | 6.0±0.4 | Max.0.8 | Max.1.2 |

Reel Dimensions (in mm)



| D | D0 | D1 | W |
|-----------|--------|----------|----------|
| 330.0±2.0 | 30±0.4 | 85.7±0.3 | 79.0±1.0 |

1.5Amp Standard Rectifiers

1N5391J05-1N5399J10

Packing Quantity Information:

| Quantity | PCS per Inner Box | PCS per Carton |
|-------------------|-------------------|----------------|
| -TR30 Tape & Reel | 4000/Reel | 16000 |
| -BL Bulk | 500 | 25000 |

Carton Size Information:

| -TR30 Tape & Reel | -2LF Lead Forming |
|-------------------------|-------------------------|
| 350 X 350 X 350(in mm) | 465 X 230 X 260(in mm) |

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