#### Surface Mount Plastic PIN Diodes

#### Features

- Surface Mount Packages .
- Low Loss, High Isolation Switching Diodes
- Tape and Reel Packaging
- RoHS\* Compliant and 260°C Reflow Compatible

#### Description

The MADP-010630. MADP-010631 and the MADP-010633 are silicon PIN diodes in a low cost. surface mount plastic package for use as a switch or attenuator. These diodes are offered with 100% matte Sn plating and are RoHS compliant devices.

These PIN diodes feature optimized I-region lengths which results in a low resistance, low capacitance device for various microwave control circuit applications.

### Package Style 1392

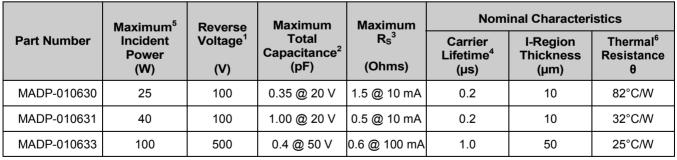




#### Ordering Information

Part Number	Package
MADP-010630-13920T	tape and reel
MADP-010631-13920T	tape and reel
MADP-010633-13920T	tape and reel

### Electrical Specifications @ T<sub>AMBIENT</sub> = 25°C



1. The reverse current will not exceed 10 µA at the reverse voltage rating.

2. Total capacitance is measured at 1 MHz at the indicated voltage.

3. Series resistance is measured at 100 MHz.

4. Nominal minority carrier lifetime is measured at  $I_F$  = 10 mA,  $I_R$  = 6 mA, 90% recovery.

5. Incident power measured at  $I_F = 50 \text{ mA}$ , F = 1GHz

6. Device located on an infinite heatsink

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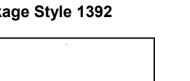
\* Restrictions on Hazardous Substances, European Union Directive 2011/65/EU.

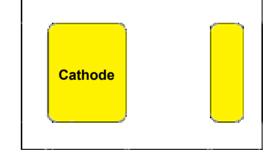
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# Absolute Maximum Ratings: T<sub>AMB</sub> = 25°C (unless otherwise specified)

Parameter	Absolute Maximum
Operating Temperature	-65°C to +125°C
Storage Temperature	-65°C to +150°C
Junction Temperature	+175°C
Mounting Temperature	+260°C for 30 secs.

#### **Handling Procedures**

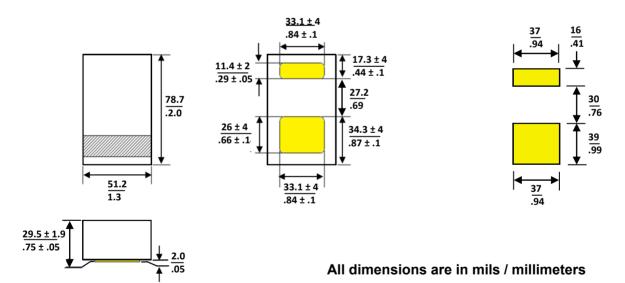
Please observe the following precautions to avoid damage:

#### **Static Sensitivity**

Silicon Integrated Circuits are sensitive to electrostatic discharge (ESD) and can be damaged by static electricity. Proper ESD control techniques should be used when handling these devices.

#### Package Style 1392

#### **Mounting Pad Configuration**



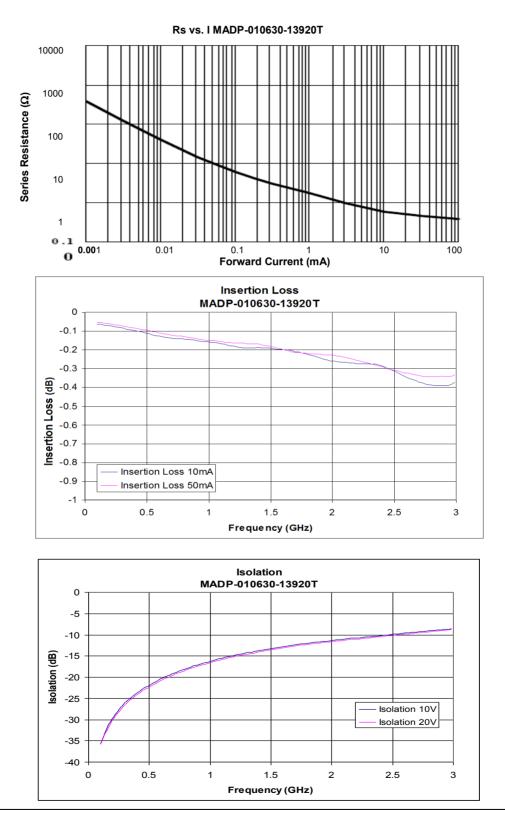
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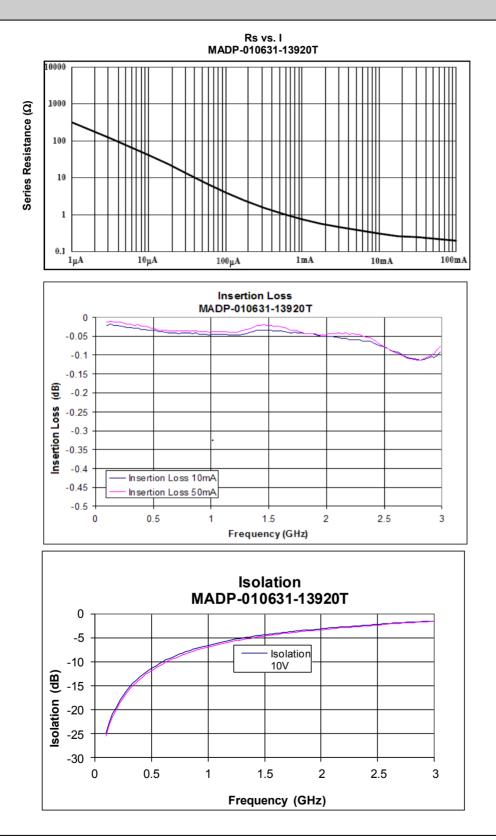
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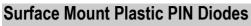


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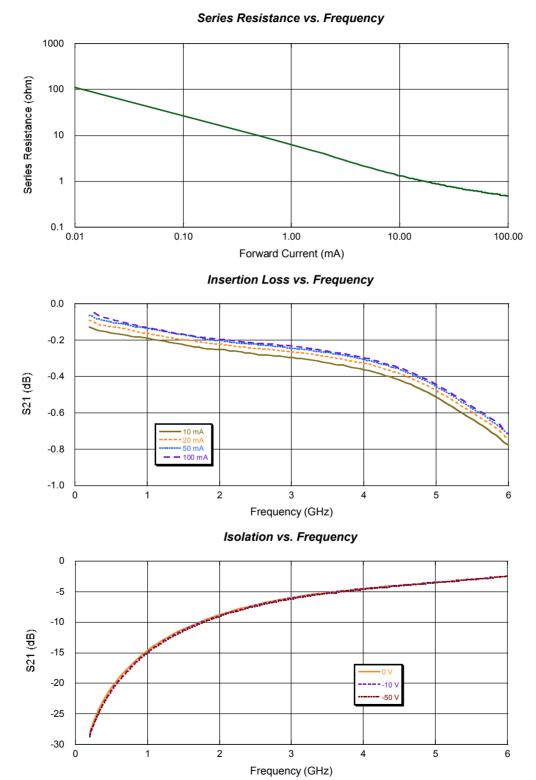
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#### **Typical Performance Curves MADP-010633**



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