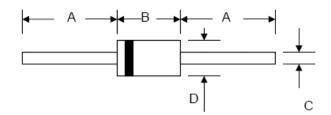
#### R2000F **0.2A FAST RECOVERY RECTIFIER**

**Technical Data Green Products** Data Sheet N0455, Rev. -

#### Features

- Fast switching
- Low Forward
- High Current Capability
- High Surge Capability
- High reliability
- This is a Pb Free Device
- All SMC parts are traceable to the wafer lot
- Additional testing can be offered upon request



#### Mechanical Data

Case: Molded Plastic

Epoxy: Device has flammability classification 94-O Lead: MIL-STD-202E method 208C guaranteed

Mounting Position: Any

| • | Mounting Position. A |
|---|----------------------|
| • | Weight: 0.35 gram    |

| DO-41 |       |       |        |       |  |  |  |
|-------|-------|-------|--------|-------|--|--|--|
| Dim   | Min   | Max   | Min    | Max   |  |  |  |
| Α     | 25.4  | _     | 1.000  | _     |  |  |  |
| В     | 4.06  | 5.21  | 0.159  | 0.205 |  |  |  |
| С     | 0.71  | 0.864 | 0.028  | 0.034 |  |  |  |
| D     | 2.00  | 2.72  | 0.079  | 0.107 |  |  |  |
|       | In mm |       | In inc | h     |  |  |  |

### **Marking Diagram:**

Where XXXXX is YYWWL



R2000F = Part Name = SSG SSG = Year YΥ WW = Week = Lot Number

Cautions: Molding resin

Epoxy resin UL:94V-0

#### **Ordering Information**

| Device | Package         | Shipping       |
|--------|-----------------|----------------|
| R2000F | DO-41 (Pb-Free) | 5000pcs / reel |

For information on tape and reel specifications, including part orientation and tape sizes, please refer to our Tape and Reel Packaging Specification.

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#### R2000F 0.2A FAST RECOVERY RECTIFIER

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## Maximum Ratings and Electrical Characteristics @TA=25°C unless otherwise specified

Single Phase, half wave, 60Hz, resistive or inductive load. For capacitive load, derate current by 20%.

| Characteristic  | Symbol             | R2000F      | Unit |
|---|--------------------|-------------|------|
| Peak Repetitive Reverse Voltage<br>Working Peak Reverse Voltage<br>DC Blocking Voltage                                | Vrrm<br>Vrwm<br>Vr | 2000        | ٧    |
| RMS Reverse Voltage   | VR(RMS)            | 1400        | ٧    |
| Average Rectified Output Current @T <sub>A</sub> = 50°C   | lo                 | 0.2         | А    |
| Non-Repetitive Peak Forward Surge Current<br>8.3ms Single half sine-wave superimposed on<br>rated load (JEDEC Method) | İFSM               | 30          | А    |
| Forward Voltage @I <sub>F</sub> = 0.2A  | Vғм                | 4.0         | ٧    |
| Peak Reverse Current @T <sub>A</sub> = 25°C At Rated DC Blocking Voltage @T <sub>A</sub> = 55°C                       | IRM                | 5.0<br>100  | μΑ   |
| Reverse Recovery Time (Note )   | trr                | 500         | nS   |
| Operating and Storage Temperature Range   | Тј ,Тѕтс           | -55 to +150 | °C   |

Note: Test Conditions: IF = 0.5A, IR = -1.0A, IRR = -0.25A.

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FIG. 1 - TYPICAL FORWARD CURRENT DERATING CURVE AVERAGE FORWARD CURRENT, (mA) 500 Single Phase Half Wave 60Hz Inductive or 400 Resistive Load 300 200 100 0 0 50 100 150 175 AMBIENT TEMPERATURE, (°C)

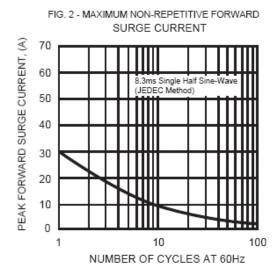
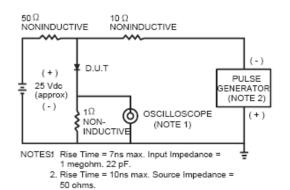
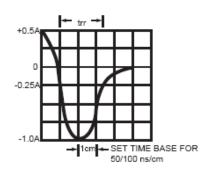


FIG. 3 - TEST CIRCUIT DIAGRAM AND REVERSE RECOVERY TIME CHARACTERISTIC





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# 0.2A FAST RECOVERY RECTIFIER

Technical Data
Data Sheet N0455, Rev. -

**Green Products** 

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