Features:
- K-band (18-26.5 GHz) frequency source applications
- Excellent frequency chirp performance
- Pulsed or CW operation
- 20 years of proven performance & reliability
- Processed in MwT captive GaAs fab
- Available in packaged or die form

Typical Applications:
- Motion Detection and Surveillance
- Microwave Transmitter and Receiver
- Military Radar
- Gunn Diode Oscillators
- Radar Detectors

Based on MwT preparatory epitaxial profile design and process technology, MwT-GK is a Gunn diode device targeted at CW and pulsed K-band (18-26.5 GHz) frequency source applications. The device has output power of 13 dBm with excellent chirp performance in pulsed operation mode. The device is fabricated at MwT GaAs fab using process technologies with proven reliability and robustness. MwT-GK is available in die or packaged form.

### Electrical Specifications @ T= +25°C

<table>
<thead>
<tr>
<th>SYMBOL</th>
<th>PARAMETERS</th>
<th>Min</th>
<th>Typ</th>
<th>Max</th>
<th>Unit</th>
</tr>
</thead>
<tbody>
<tr>
<td>Freq.</td>
<td>Frequency Range (1)</td>
<td>18</td>
<td>26.5</td>
<td>GHz</td>
<td></td>
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<tr>
<td>P1dB</td>
<td>Output Power (2)</td>
<td>11.0</td>
<td>13.0</td>
<td>dBm</td>
<td></td>
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<tr>
<td></td>
<td>DC Voltage</td>
<td>6.0</td>
<td>V</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Idd</td>
<td>DC Current</td>
<td>140</td>
<td>200</td>
<td>mA</td>
<td></td>
</tr>
</tbody>
</table>

(1) Operating around a specific frequency with a narrow bandwidth.
(2) Measured with pulsed operation in a cavity oscillator designed to operate at Fo=24.125 GHz. Pulse width=4 µsec; Duty cycle=3.5%.

### Absolute Maximum Ratings

- Maximum Bias Voltage: 7.5 V
- Maximum Case Operating Temperature: + 85 °C
- Maximum Storage Temperature: - 55 to + 120 °C