

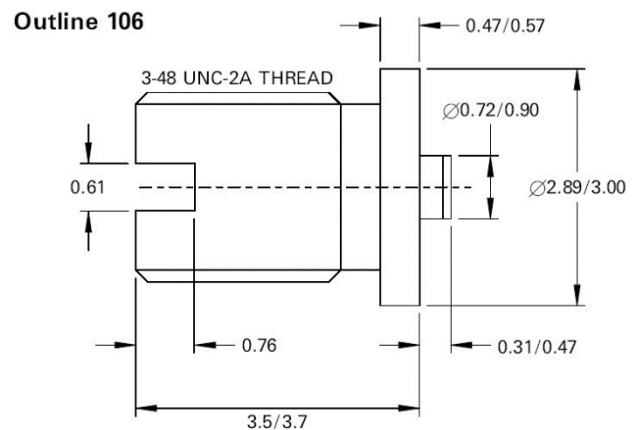
## Linwave DC1277G-T Gunn Diode 40-60GHz

LW36-700156

### DESCRIPTION

Gallium Arsenide graded gap Gunn diode assembled in custom package for fundamental mode of operation in the 40 to 60 GHz band.

Top cap is positive polarity.



### NOTES

1. The typical performance parameters indicated in the table overleaf can be customised to the user's requirements. The table shows typical values that can be achieved in a standard test cavity. Other variations may be possible using a customer specific test cavity.
2. Threshold current is defined as the maximum forward current in the DC current/ voltage characteristics.
3. A spot test frequency +/- 10% must be specified on the purchase order between the upper and lower limits which Linwave can test between.
4. Operating voltage is typically 5.5 V at 40 GHz and 3 V at 60 GHz though the devices will be tested at the optimum value.
5. Linwave Technology would prefer to test the gunn diode in the customer's own oscillator test cavity wherever practicable, to ensure it meets their operational requirements.

*Linwave reserves the right to make changes, without notice, in the products, including circuits, standard cells, and/or software, described or contained herein in order to improve design and/or performance.*

Data sheet Iss 01, dated 16/08/19 DS00-700156-01, No. 4262

For price, delivery and to place orders please contact  
 Linwave Technology Ltd, Marlin Building, Sadler Road, Lincoln, LN6 3RS  
 Company Reg No 4478971 (England)  
 Phone:+44 (0) 1522 681811 Fax:+44 (0) 1522 681911  
 Email [enquiries@linwave.co.uk](mailto:enquiries@linwave.co.uk) Website [www.linwave.co.uk](http://www.linwave.co.uk)  
 © 2016 Linwave Technology

**Typical Electrical Specification (All tests shall be made at  $T_{amb} = 23^{\circ}\text{C} \pm 5^{\circ}\text{C}$ )**

			<b>Min (Typical)</b>	<b>Max (Typical)</b>	
<b>Operating Current</b>	At Operating Voltage	$I_{OP}$		700	mA
<b>Output Power</b>		$P_{OUT}$	100		mW
<b>Operating Frequency</b>	See Note 3	$F_{OP}$	40	60	GHz
<b>Threshold Current</b>	See Note 2	$I_{th}$		1000	mA
<b>Operating Voltage</b>	See Note 4				
<b>Start-Up Voltage</b>		$V_{ST}$		4.0	V

*Linwave reserves the right to make changes, without notice, in the products, including circuits, standard cells, and/or software, described or contained herein in order to improve design and/or performance.*

Data sheet Iss 01, dated 16/08/19 DS00-700156-01, No. 4262

*For price, delivery and to place orders please contact  
 Linwave Technology Ltd, Marlin Building, Sadler Road, Lincoln, LN6 3RS  
 Company Reg No 4478971 (England)  
 Phone:+44 (0) 1522 681811 Fax:+44 (0) 1522 681911  
 Email [enquiries@linwave.co.uk](mailto:enquiries@linwave.co.uk) Website [www.linwave.co.uk](http://www.linwave.co.uk)  
 © 2016 Linwave Technology*