

UHF HYPERABRUPT TUNING DIODES

- Application frequencies up to 800 MHz
- Linear tuning capability between 3 and 8 volts
- Diode capacitance ranges from 10.5 to 31 pF support higher application frequencies

LV2101(A) - LV2103(A)

| PART NUMBER | C _T CAPACITANCE (pF) f = 1 MHz | | | | | | TR TUNING RATIO f = 1 MHz | | | | Q | | V _{BR} (Vdc) | | I _r (nA dc) | | | |
|----------------|---|------|------------------------|-----|------------------------|-----|---------------------------------|-----|--------------|-----|--------------------------------------|-----|---------------------------|-----|---------------------------|-----|-------------------------|-----|
| | V _R = 3 Vdc | | V _R = 8 Vdc | | V _R =20 Vdc | | C•3/ C•8V | | C•3V / C•20V | | V _R = 3 Vdc f = 50 MHz | | I _r = 10 μA dc | | V _R = 10 Vdc | | V _R = 20 Vdc | |
| | MIN | MAX | MIN | MAX | MIN | MAX | MIN | MAX | MIN | MAX | MIN / TYP | MAX | MIN | TYP | TYP | MAX | TYP | MAX |
| LV2101 | 10.5 | 12.5 | 4.3 | 5.7 | 2.0 | 2.3 | | | 5.0 | 5.8 | 300 | 350 | 22 | 30 | | | 10 | 100 |
| LV2101A | 10.9 | 12.1 | 4.6 | 5.4 | 2.0 | 2.3 | | | 5.0 | 5.8 | 300 | 350 | 22 | 30 | | | 10 | 100 |
| LV2102 | 10.5 | 12.5 | 4.3 | 5.7 | 2.0 | 2.4 | | | 4.7 | 5.5 | 200 | 300 | 22 | 30 | | | 10 | 100 |
| LV2102A | 10.9 | 12.1 | 4.6 | 5.4 | 2.0 | 2.4 | | | 4.7 | 5.5 | 200 | 300 | 22 | 30 | | | 10 | 100 |
| LV2103 | 10.5 | 12.5 | 4.3 | 5.7 | | | 1.9 | 2.7 | | | 200 | 300 | 15 | 18 | 50 | 500 | | |
| LV2103A | 10.9 | 12.1 | 4.6 | 5.4 | | | 2.0 | 2.6 | | | 200 | 300 | 15 | 18 | 50 | 500 | | |

LV2801(A) - LV2803(A)

| TYPE NUMBER | C _T CAPACITANCE (pF) f = 1 MHz | | | | | | TR TUNING RATIO f = 1 MHz | | | | Q | | V _{BR} (Vdc) | | I _r (nA dc) | | | |
|----------------|---|------|------------------------|------|------------------------|-----|---------------------------------|-----|--------------|-----|--------------------------------------|-----|---------------------------|-----|---------------------------|-----|-------------------------|-----|
| | V _R = 3 Vdc | | V _R = 8 Vdc | | V _R =20 Vdc | | C•3/ C•8V | | C•3V / C•20V | | V _R = 3 Vdc f = 50 MHz | | I _r = 10 μA dc | | V _R = 10 Vdc | | V _R = 20 Vdc | |
| | MIN | MAX | MIN | MAX | MIN | MAX | MIN | MAX | MIN | MAX | MIN / TYP | MAX | MIN | TYP | TYP | MAX | TYP | MAX |
| LV2801 | 25 | 31 | 10 | 13.5 | 4.5 | 5.1 | | | 5.2 | 6.1 | 200 | 250 | 22 | 30 | | | 20 | 100 |
| LV2801A | 26.5 | 29.5 | 11 | 13 | 4.5 | 5.1 | | | 5.2 | 6.1 | 200 | 250 | 22 | 30 | | | 20 | 100 |
| LV2802 | 25 | 31 | 10 | 13.5 | 4.5 | 5.3 | | | 4.9 | 5.8 | 150 | 200 | 22 | 30 | | | 20 | 100 |
| LV2802A | 26.5 | 29.5 | 11 | 13 | 4.5 | 5.3 | | | 4.9 | 5.8 | 150 | 200 | 22 | 30 | | | 20 | 100 |
| LV2803 | 25 | 31 | 10 | 13.5 | | | 1.9 | 2.8 | | | 150 | 200 | 15 | 18 | 50 | 500 | | |
| LV2803A | 26.5 | 29.5 | 11 | 13 | | | 2.0 | 2.7 | | | 150 | 200 | 15 | 18 | 50 | 500 | | |

Package Style
Operating Temperature (Topr)
Storage Temperature (Tstg)
 Other package styles are available

DO-7
-55° to + 150°
-65° to + 200°C