

Limiter Diodes

The **SemiGen** SLP7100 series of Limiter Diodes are processed with a high-resistivity epi that have thin intrinsic layers. These devices are typically in the 2 to 20micron range of epi thickness and can be gold doped to achieve specific performance goals. These diodes are used in passive or active limiter designs in the 100 MHz to 30 GHz frequency ranges. They are ideal for use in high-power applications and can be supplied in chip form or in your choice of [packages](#) →.

Features:

- Low Capacitance and Resistance
- Easily Bondable
- Low Loss
- Fast Turn-on Time



Applications:

For use in waveguide, strip-line, coax or microstrip in single- or multi-chip devices depending on power handling and performance goals.



SG Part Number	Vb TYP (V)	Cj0 TYP (pf)	Cj6 MAX (pf)	Rs TYP @ 10 mA (Ω)	Rs TYP @ 1 mA (Ω)	TL TYP (nS)	Max Thermal Resistance (°C/W)	Max Peak Pin @ 1.0 Ω s (dBm)	Typical Threshold (dB)	Leakage P out TYP (dBm)	Insertion Loss TYP (dB)	CW Pin MAX (W)
SLP7130	15-30	0.12	0.10	2.00	4.00	5	120	+47	+7	+19	0.10	2.00
SLP7131	15-30	0.20	0.15	1.50	3.00	5	80	+50	+7	+22	0.10	3.00
SLP7100	20-45	0.20	0.15	1.50	5.00	5	100	+50	+10	+22	0.10	2.00
SLP7101	20-45	0.50	0.30	1.20	4.50	10	80	+53	+10	+24	0.20	3.00
SLP7102	20-45	0.70	0.50	1.00	4.00	10	55	+56	+10	+25	0.20	4.00
SLP7140	30-60	0.12	0.10	2.00	4.00	7	100	+47	+12	+24	0.10	3.00
SLP7141	30-60	0.20	0.15	1.50	4.00	7	70	+50	+12	+27	0.10	4.00
SLP7110	45-75	0.20	0.15	1.50	4.00	10	80	+53	+15	+27	0.10	3.00
SLP7111	45-75	0.50	0.30	1.20	3.50	15	60	+56	+15	+29	0.20	4.00
SLP7112	45-75	0.70	0.50	1.00	3.00	20	40	+59	+15	+31	0.20	5.00
SLP7120	120-180	0.20	0.15	1.50	3.50	50	40	+60	+20	+39	0.10	5.00
SLP7121	120-180	0.60	0.30	1.00	3.00	50	20	+63	+20	+41	0.20	1.00
SLP7122	120-180	0.80	0.50	0.50	3.00	100	15	+66	+20	+44	0.20	1.00