

# TUNNEL DIODES MICROWAVE

Type <sup>1</sup>	I <sub>P</sub> Peak Current Typ. (mA)	V <sub>P</sub> Peak Voltage Typ. (mV)	V <sub>V</sub> Valley Voltage Typ. (mV)	V <sub>FP</sub> Forward Peak Voltage Typ. (mV)	(I <sub>F</sub> /I <sub>V</sub> ) Peak to Valley Ratio Typ.	-R Negative Resistance ( <sup>2</sup> )	R <sub>S</sub> Series Resistance Max. ( <sup>2</sup> )	C <sub>J</sub> Junction Capacitance @ -R <sup>2</sup> Typ. (pF)	f <sub>RO</sub> Resistive Cutoff Freq. Min. (GHz)
TD-401	1.85	65	350	520	8	60-80	3	2.0	5
TD-402	1.85	67	360	540	8	60-80	4	1.0	10
TD-403	1.85	70	380	550	8	60-80	5	0.65	15
TD-404	1.85	72	380	560	8	60-80	5	0.46	20
TD-405	1.85	74	390	570	8	60-80	6	0.36	25
TD-406	1.85	75	390	570	8	60-80	6	0.25	30
TD-407	1.85	76	400	580	8	60-80	6	0.18	40
TD-408	1.85	77	400	580	8	60-80	7	0.13	50
TD-409	1.85	78	400	580	8	60-80	8	0.09	65
TD-411	2.35	65	350	520	8	50-60	3	2.3	5
TD-412	2.35	67	360	540	8	50-60	4	1.2	10
TD-413	2.35	70	380	550	8	50-60	5	0.75	15
TD-414	2.35	72	380	560	8	50-60	5	0.53	20
TD-415	2.35	74	390	570	8	50-60	6	0.41	25
TD-416	2.35	75	390	570	8	50-60	6	0.30	30
TD-417	2.35	76	400	580	8	50-60	6	0.22	40
TD-418	2.35	77	400	580	8	50-60	7	0.15	50
TD-419	2.35	78	400	580	8	50-60	8	0.11	65
TD-421	2.85	65	350	520	8	40-50	3	2.6	5
TD-422	2.85	67	360	540	8	40-50	4	1.3	10
TD-423	2.85	70	380	550	8	40-50	5	0.84	15
TD-424	2.85	72	380	560	8	40-50	5	0.58	20
TD-425	2.85	74	390	570	8	40-50	6	0.46	25
TD-426	2.85	75	390	570	8	40-50	6	0.34	30
TD-427	2.85	76	400	580	8	40-50	6	0.24	40
TD-428	2.85	77	400	580	8	40-50	7	0.16	50
TD-429	2.85	78	400	580	8	40-50	8	0.12	65
TD-431	3.7	65	350	520	8	30-40	3	0.32	5
TD-432	3.7	67	360	540	8	30-40	4	1.6	10
TD-433	3.7	70	380	550	8	30-40	4	1.0	15
TD-434	3.7	72	380	560	8	30-40	5	0.70	20
TD-435	3.7	74	390	570	8	30-40	5	0.55	25
TD-436	3.7	75	390	570	8	30-40	5	0.38	30
TD-437	3.7	76	400	580	8	30-40	6	0.27	40
TD-438	3.7	77	400	580	8	30-40	6	0.18	50
TD-439	3.7	78	400	580	8	30-40	7	0.13	65

<sup>1</sup>The 400 Series high performance Microwave Tunnel Diodes are available in the pill package—Outline 49

Series Inductance, L<sub>S</sub> = 0.15 nH typical. C<sub>P</sub> = .25 pF.

<sup>2</sup>C<sub>J</sub> @ -R = 0.75 of the junction capacitance measured at V<sub>V</sub>.

