

## DIODE SPECIFICATION

### W Band Tee

**Table I ELECTRICAL CHARACTERISTICS  
(per anode)**

	Test Conditions	Minimum Value	Maximum Value	Maximum $\delta$ side to side	Units
$R_s$ Series Resistance	$I_{max}=10$ mA		4	0.5	$\Omega$
$V_F$ Forward Turn-on Voltage	$I_F = 1$ $\mu$ A	450	550	60	mV
$\Delta V$	100 $\mu$ A – 10 $\mu$ A		70	1	mV
$V_R$ Reverse Breakdown	$I_R = 10$ $\mu$ A	8.5		1	V
$C_T$ Total Capacitance	$V = 0$ V	32	36	2	fF
$C_{PP}$ Pad to Pad Capacitance	$V = 0$ V		14		fF

**Table II PHYSICAL DIMENSIONS**

	Minimum Value	Maximum Value	Units
Chip Length	730	750	$\mu$ m
Chip Width	280	300	$\mu$ m
Substrate Thickness	90	100	$\mu$ m

