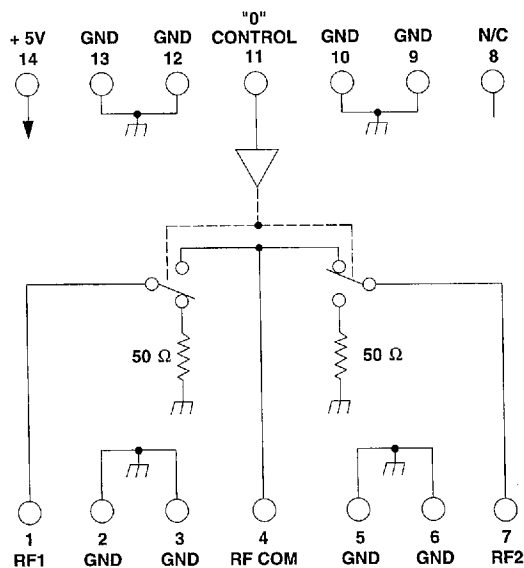


SP2T

- d** **MODEL NO.**
DS0052
PIN Diode SP2T



N/C = NO INTERNAL CONNECTION



PARAMETER	MIN	TYP	MAX	UNITS	CONDITIONS
OPERATING FREQUENCY	10		2000	MHz	
DC CURRENT		15	25	mA	AT +5 VDC SUPPLY
CONTROL TYPE		TTL			1 LINE LOGIC "0" = RF COM TO RF2 LOGIC "1" = RF COM TO RF1
CONTROL CURRENT:	HIGH LOW	0 0	± 20 ± 20	μ A μ A	V _{IH} = +2.7V V _{IL} = +0.5V
INSERTION LOSS		0.6 0.9 1.0 1.5	0.8 1.2 1.6 2.2	dB dB dB dB	10 - 200 MHz 200 - 500 MHz 500 - 1000 MHz 1000 - 2000 MHz
INSERTION LOSS FLATNESS		± 0.1	± 0.2	dB	20 - 200 MHz
ISOLATION	70 50 40 30	82 62 50 40		dB dB dB dB	10 - 100 MHz 100 - 500 MHz 500 - 1000 MHz 1000 - 2000 MHz
VSWR:	THRU	1.15/1 1.2/1 1.1/1 1.3/1	1.25/1 1.5/1 1.3/1 1.5/1		10 - 1000 MHz 1000 - 2000 MHz 10 - 1000 MHz 1000 - 2000 MHz
	TERMINATION				
IMPEDANCE		50		OHMS	
SWITCHING SPEED		0.4	1.0	μ SEC	50% TTL TO 90% / 10% RF
TRANSITION (RISE/FALL) TIME		0.1		μ SEC	90% / 10% OR 10% / 90% RF
SWITCHING (VIDEO) TRANSIENTS		780		mV	PEAK VALUE
INTERCEPT POINTS,	2ND 3RD	+72 +42		dBm dBm	70 MHz / 50 MHz 35 MHz / 50 MHz
RF POWER:	OPERATE NO DAMAGE	+12	+10 +30	dBm dBm	0.1 dB COMPRESSION
OPERATING TEMPERATURE		-55	+25 +125	$^{\circ}$ C	TA