

FEATURES

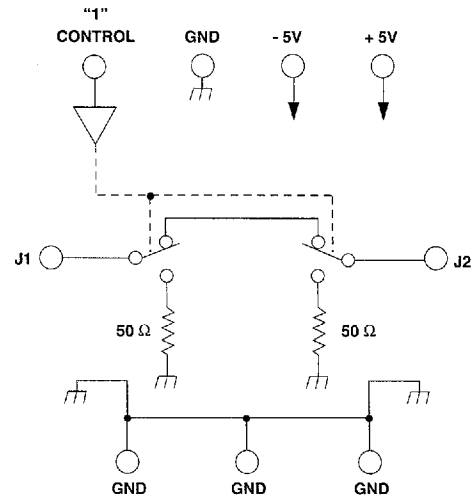
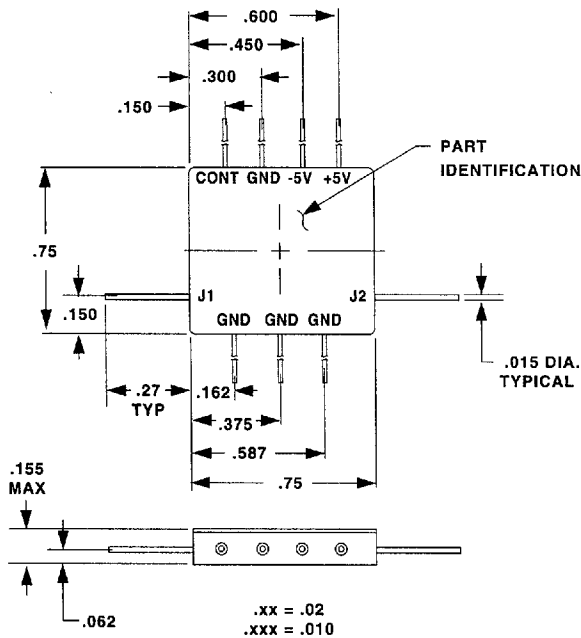
- 400 - 2000 MHz
- 0.9 dB Insertion Loss
- 60 dB Isolation
- TTL Driver
- Non-Reflective
- .750 Sq. Flat Pack

SPST

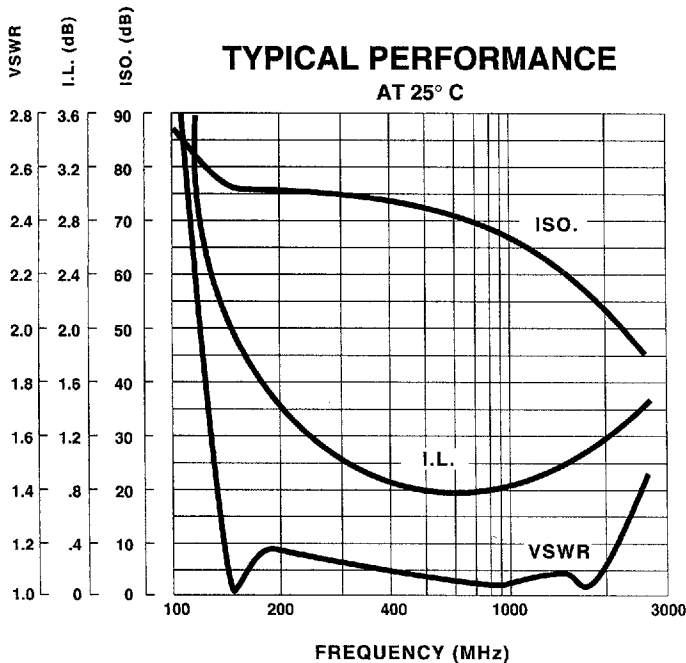


**MODEL NO.
DS0551**

PIN Diode SPST



TYPICAL PERFORMANCE AT 25° C



GUARANTEED PERFORMANCE

PARAMETER	MIN	TYP	MAX	UNITS	CONDITIONS
OPERATING FREQUENCY	400			MHz	
DC CURRENT		29 23	40 35	mA	AT +5 VDC SUPPLY AT -5 VDC SUPPLY
CONTROL TYPE		TTL			1 LINE LOGIC "0" = ISOLATION LOGIC "1" = THRU
CONTROL CURRENT:	HIGH LOW	0 -250	+80 -800	μ A μ A	V _{IH} = +2.7V V _{IL} = +0.5V
INSERTION LOSS		1.1	1.5	dB	
ISOLATION	60 50	67 56		dB	400 - 1000 MHz 1000 - 2000 MHz
VSWR:	THRU TERMINATION	1.2/1 1.1/1	1.4/1 1.4/1		
IMPEDANCE		50		OHMS	
SWITCHING SPEED		185	400	n SEC	50% TTL TO 90% / 10% RF
TRANSITION (RISE/FALL) TIME		115		n SEC	90% / 10% OR 10% / 90% RF
SWITCHING (VIDEO) TRANSIENTS		280		mV	PEAK VALUE
INTERCEPT POINTS,	2ND 3RD	+59 +39		dBm dBm	1595 MHz / 1095 MHz 1195 MHz / 1895 MHz
RF POWER:	OPERATE NO DAMAGE	+17	+10 +30	dBm dBm	D.1 dB COMPRESSION
OPERATING TEMPERATURE	-55	+25	+125	°C	TA