

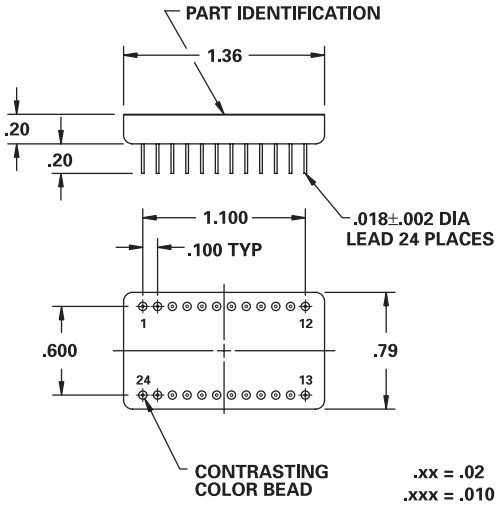
MODEL NUMBER
DS0967

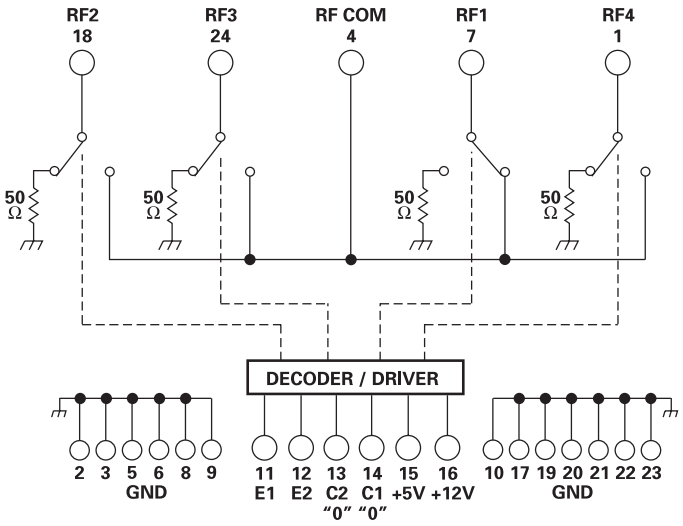
PIN Diode SP4T

FEATURES

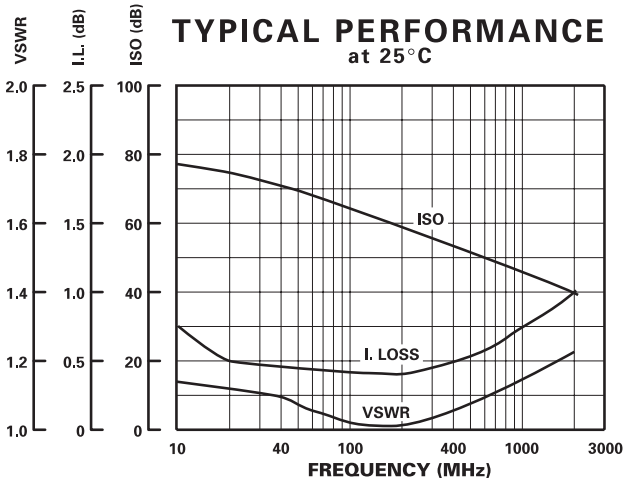
- 20 - 2000 MHz
- Very Low Insertion Loss
- High Intercept Points
- TTL Driver With 2 Line BCD Control
- Non-Reflective
- 24 Pin DIP

SP4T





TYPICAL PERFORMANCE
at 25°C



ENABLE CONDITION		
E1	E2	Switch
GND	+5V	Enable
+5V	X	Disable
X	GND	Disable

X = Don't Care, When Switch Is Disabled, All Outputs Are Terminated And the Common Is Reflective

LOGIC TABLE		
RF COM to	C2	C1
RF1	0	0
RF2	0	1
RF3	1	0
RF4	1	1

GUARANTEED PERFORMANCE

Parameter		Min	Typ	Max	Units	Conditions
Operating Frequency		20		2000	MHz	
DC Current			21	35	mA	At +5 VDC Supply
			11	20	mA	At +12 VDC Supply
Control Type			TTL			2 Line, See Logic Chart
Control Current	*High*		0	±20	µA	VIH = +2.7V
	Low		0	±20	µA	VIL = +0.5V
Insertion Loss			0.5	0.6	dB	20 - 500 MHz
			0.7	0.9	dB	500 - 1000 MHz
			1.0	1.2	dB	1000 - 2000 MHz
Isolation		45	51		dB	20 - 500 MHz
		37	45		dB	500 - 1000 MHz
		30	39		dB	1000 - 2000 MHz
VSWR	*Thru*		1.2/1	1.4/1		
	Termination		1.3/1	1.4/1		
Impedance			50		OHMS	
Switching Speed			1.4	5	µSEC	50% TTL to 90% / 10% RF
Transition (Rise/Fall) Time			0.1		µSEC	90% / 10% or 10% / 90% RF
Switching (Video) Transients			1.8		V	Peak Value
Intercept Points	*2nd*		+89		dBm	70 MHz / 50 MHz
	3rd		+47		dBm	35 MHz / 50 MHz
RF Power	*Operate*		+29	+25	dBm	0.1 dB Compression
	No Damage			+30	dBm	
Operating Temperature		-55	+25	+54	°C	TA