TWO & THREE PORT RF PIN SWITCH MODULES

Description

This series of SP2T and SP3T RF switches uses high voltage PIN diodes, from the EH80000 family, to achieve very low loss and distortion.

Theses switches can be used from 1.5 to 1000 MHz, and can handle power levels up to 1000 W.

Electrical characteristics

Characteristics at 25°C			Frequency range	Loss L	Isolation I	Input power P_{in}	Suggested bias conditions	
Test conditions			N/A	f (MHz) I_f (mA)	f (MHz) V_r (V)	cw	Forward	Reverse
Type	Case	Switch Type	MHz	dB	dB	W	mA	V
(1)		(2)	typ.	max	min.	max	typ.	typ.
				200 MHz 100 mA	**100 MHz 0 V**			
SH90101	TO39	SP2T	10 - 600	0.35	35	10	100	50
SH91101	TO39	SP2T	10 - 600	0.35	35	10	100	50
				400 MHz 100 mA	**200 MHz 0 V**			
SH90103	BH203N	SP2T	20 - 1000	0.35	25	100	200	150
SH91103	BH203N	SP2T	20 - 1000	0.35	25	100	200	150
SH92103	BH204N	SP3T	20 - 1000	0.35	25	100	200	150
SH93103	BH204N	SP3T	20 - 1000	0.35	25	100	200	150
				100 MHz 200 mA	**200 MHz 100 V**			
SH91107	BH403a	SP2T	20 - 500	0.20	33	1000	400	600
				10 MHz 200 mA	**10 MHz 200 V**			
SH90207	BH405	SP2T	1.5 - 50	0.15	37	1000	1000	700
SH91207	BH405	SP2T	1.5 - 50	0.15	37	1000	1000	700

(1) Series 90 and 92 : common anode
Series 91 and 93 : common cathode

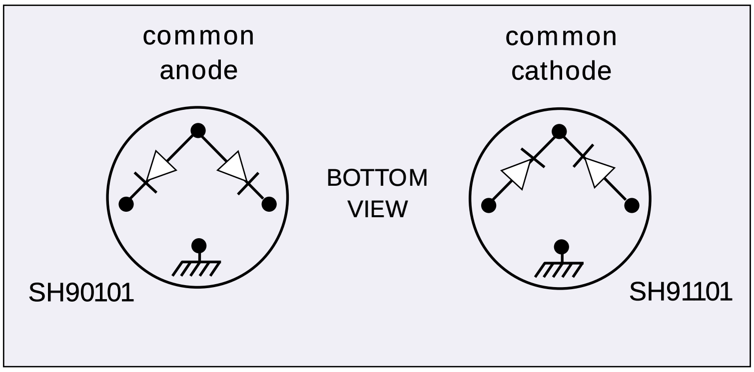
(2) Custom configurations available on request

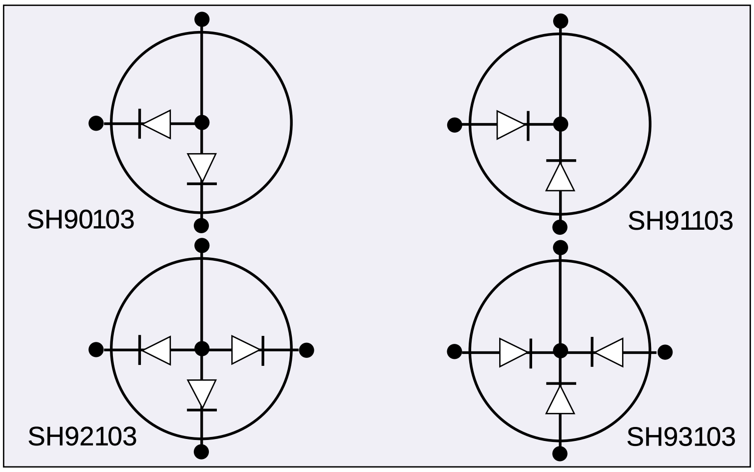
Temperature ranges:

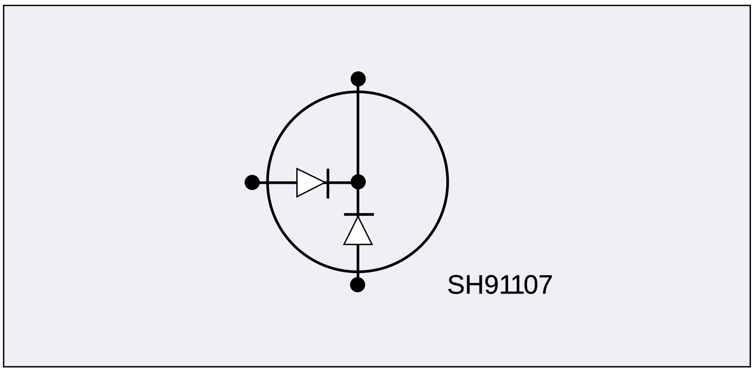
Operating junction (T_j) : - 55° C to + 150° C

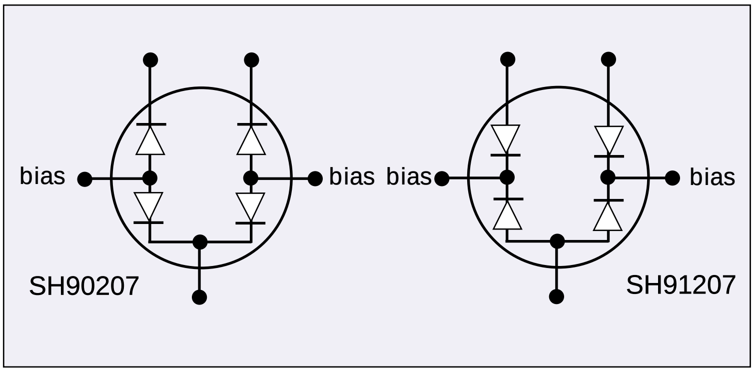
Storage : - 65° C to + 175° C

Internal wiring diagrams









Typical performances

INSERTION LOSS AND ISOLATION VERSUS FREQUENCY