

Surface Mount RF Diode

Product Selection



MiniPak

	Single	Anti-parallel	Parallel	Shunt Switch
Configuration	 (0)	 (2)	 (5)	 (T)
PIN	HMPP-3860	HMPP-3862	HMPP-3865	
	HMPP-3890	HMPP-3892	HMPP-3895	HMPP-389T
Schottky	HMPS-2820	HMPS-2822	HMPS-2825	

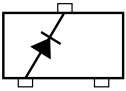
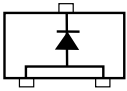
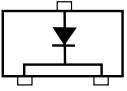
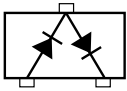
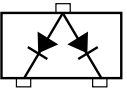
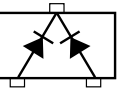
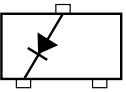
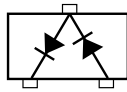
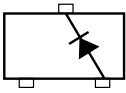
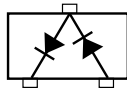
3 Lead Diodes SOT-323 (SC-70)

	Single	Dual Anode	Dual Cathode	Series Pair	Common Anode	Common Cathode
Configuration						
PIN	HSMP-381B		HSMP-481B	HSMP-381C	HSMP-381E	HSMP-381F
	HSMP-386B			HSMP-386C	HSMP-386E	HSMP-386F
	HSMP-389B	HSMP-489B		HSMP-389C	HSMP-389E	HSMP-389F
Schottky	HBAT-540B			HBAT-540C		
	HSMS-270B			HSMS-270C		
	HSMS-280B			HSMS-280C	HSMS-280E	HSMS-280F
	HSMS-281B			HSMS-281C	HSMS-281E	HSMS-281F
	HSMS-282B			HSMS-282C	HSMS-282E	HSMS-282F
	HSMS-285B			HSMS-285C		
	HSMS-286B			HSMS-286C	HSMS-286E	HSMS-286F

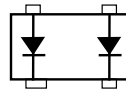
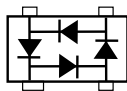
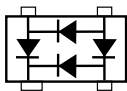
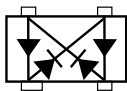
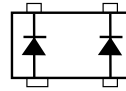


Agilent Technologies

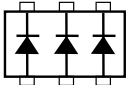
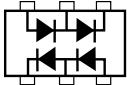
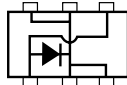
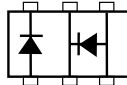
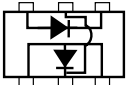
3 Lead Diodes SOT-23

	Single	Dual Anode	Dual Cathode	Series Pair	Common Anode	Common Cathode
Configuration						
PIN	HSMP-3810		HSMP-4810	HSMP-3812	HSMP-3813	HSMP-3814
	HSMP-3860			HSMP-3862	HSMP-3863	HSMP-3864
	HSMP-3890	HSMP-4890		HSMP-3892	HSMP-3893	HSMP-3894
Schottky	HBAT-5400			HBAT-5402		
	HSMS-2700			HSMS-2702		
	HSMS-2800			HSMS-2802	HSMS-2803	HSMS-2804
	HSMS-2810			HSMS-2812	HSMS-2813	HSMS-2814
	HSMS-2820			HSMS-2822	HSMS-2823	HSMS-2824
	HSMS-2860			HSMS-2862	HSMS-2863	HSMS-2864
						
	HSMS-2850			HSMS-2852		
						
	HSMS-8101			HSMS-8202		

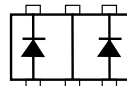
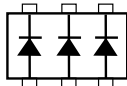
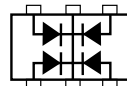
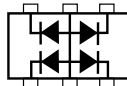
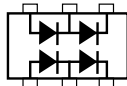
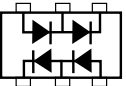
4 Lead Diodes SOT-143

	Unconnected Pair	Ring Quad	Bridge Quad	Crossover Quad
Configuration				
PIN	HSMP-3895			
Schottky	HSMS-2805		HSMS-2808	
	HSMS-2815	HSMS-2817	HSMS-2818	
	HSMS-2825	HSMS-2827	HSMS-2828	HSMS-2829
	HSMS-2865			
		HSMS-8207		HSMS-8209
				
	HSMS-2855			

6 Lead Diodes SOT-323 (SC-70)

	Unconnected Trio	Dual Mode Switch	Low Inductance	Series Shunt Pair	High Frequency Series Shunt Pair
Configuration	 L	 R	 T	 U	 V
PIN	HSMP-386L				
	HSMP-389L	HSMP-389R	HSMP-389T	HSMP-389U	HSMP-389V

6 Lead Diodes SOT-363 (SC-70)

	High Isolation Unconnected Pair	Unconnected Trio	Common Cathode Quad	Common Anode Quad	Bridge Quad	Ring Quad
Configuration	 K	 L	 M	 N	 P	 R
Schottky	HSMS-280K	HSMS-280L	HSMS-280M	HSMS-280N	HSMS-280P	HSMS-280R
	HSMS-281K	HSMS-281L				
	HSMS-282K	HSMS-282L	HSMS-282M	HSMS-282N	HSMS-282P	HSMS-282R
		HSMS-285L			HSMS-285P	
	HSMS-286K	HSMS-286L			HSMS-286P	HSMS-286R

PIN Diodes

Application	Part Number	C_t (pF) (max/typ)	R_s (Ω) (max)	V_{BR} (V) (min)	T_{rr} (nS) (typ)	Lifetime (nS) (typ)
Low distortion attenuator	HSMP-381x	0.35/0.27	3.0	100	300	1500
Low distortion/low inductance attenuator	HSMP-481x	0.40/0.35	3.0	100	300	1500
Low inductance limiter	HSMP-482x	1.0/0.75	0.6	35	7	70
Low current switch/attenuator	HMPP/HSMP-386x	—/0.20	1.5 typ	50	80	500
Low resistance switch	HMPP/HSMP-389x	0.30/0.20	2.5	50	—	200
Low resistance/low inductance switch	HSMP-489x	0.38/0.33	2.5	50	—	200

Schottky-Barrier Diodes

Application	Part Number	V_{BR} (V) (min)	V_F (mV) (max)	V_F @ I_F (V @ mA) (max)	C_t (pF) (typ)	R_D (Ω) (typ)	Volt. Sens. (γ) (mV/mW) (typ @ 900 MHz)	R_V (K Ω) (typ)
Best overall general purpose	HMPS/HSMS-282x	15	340	0.7 @ 30	1.0	12.0	—	—
Clipping/Clamping	HBAT-540x	30	800	—	3.0	2.4	—	—
High Current Clipping/Clamping	HSMS-270x	15	550	—	6.7	0.65	—	—
Lowest flicker noise	HSMS-281x	20	400	1.0 @ 35	1.2	15	—	—
High V_{BR}	HSMS-280x	70	400	1.0 @ 15	2.0	35	—	—
Zero bias detector	HSMS-285x	—	150	—	0.3	—	40	8
High frequency up to 14 GHz	HSMS-286x	5	250	—	0.3	—	50	5

