

Variable Capacitance Diodes

●Tuning Diodes

Capacitance can be changed linearly and widely as frequency changes. This frequency response can be used as tuning element on VHF and UHF circuits. Packaged in pin 2 mini for high density mounting application.

Part No.	Absolute maximum ratings (Ta=25°C)				Electrical characteristics (Ta=25°C)													Package
	VRM (V)	VR (V)	Tj (°C)	Tstg (°C)	IR (nA) Max.		CT1 (pF)				CT2 (pF)				RS (Ω) Max.			
					VR (V)		Min.	Max.	VR (V)	f (MHz)	Min.	Max.	VR (V)	f (MHz)	CT (pF)	f (MHz)		
1SV223	35	30	120	-30~+120	10	28	13.88	16.04	2	1	2.015	2.385	25	1	0.6	14	470	DSM

PIN Diodes

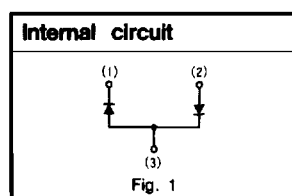
Small forward resistance and capacitance. Switchable for AGC and attenuator at UHF and VHF. Available in various packages.

	Part No.	Absolute maximum ratings (Ta=25°C)					*Electrical characteristics (Ta=25°C)										Package	Circuit
		V _R (V)	I _F (mA)	*P (mW)	T _J (°C)	T _{stg} (°C)	V _F (V) Max.		I _R (nA) Max.		C _T (pF) Max.		r _f (Ω) Max.					
								I _F (mA)		V _R (V)		V _R (V)	f (MHz)		I _F (mA)	f (MHz)		
New	RN711H	50	50	100	125	-55~+125	1.0	10	100	50	0.4	35	1	10	10	100	DSM	—
New	RN719F	50	50	100	125	-55~+125	1.0	10	100	50	0.4	35	1	10	10	100	UMD	Fig.1
New	RN719D	50	50	100	125	-55~+125	1.0	10	100	50	0.4	35	1	10	10	100	SMD	Fig.1
New	RN731H	50	50	100	125	-55~+125	1.0	50	100	50	0.4	35	1	7	10	100	DSM	—
New	RN739F	50	50	100	125	-55~+125	1.0	50	100	50	0.4	35	1	7	10	100	UMD	—
New	RN739D	50	50	100	125	-55~+125	1.0	50	100	50	0.4	35	1	7	10	100	SMD	—

Note : *Values are for each element.

(Unit : mm)

DSM	UMD (SOT-323)	SMD (SC-59/Japanese SOT-23)
TOP VIEW	TOP VIEW (Each lead has same dimensions)	TOP VIEW (Each lead has same dimensions)



●Product Designation

- When ordering, specify the type.
- Check each code against the tables shown below.
- Fill a space with the next character.

R N 7 1 1 H T T 1 1

Part No.

Packaging

Package	Code	Symbol hole side	Quantity/Package (pcs)
DSM	TT11	Cathode	3,000
	TT12	Anode	
UMD	T106	1Pin	
SMD	T107	2Pins	
	T146	1Pin	
	T147	2Pins	

Note : 1SV223 has capability of additional capacitance address.

Call us for details. Standard : 1SV223 NOOTT11