

Hyperabrupt Varactor Diode

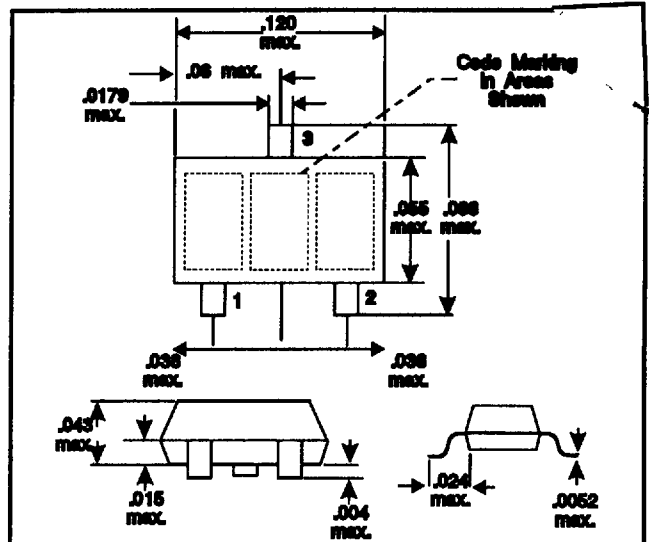
Features:

- VHF to UHF & L Band Operation
- Low Series Resistance
- Octave Tuning from 4 to 20 volts
Surface Mountable SOT-23 Package
 - Single diode
(SMV1204-04A, SMV1204-05A)
 - Two diodes back to back
(SMV1200-04B, SMV1204-05B).
- High Reliability

Types:

- SMV1204-04 A,B
- AMV1204-05 A,B

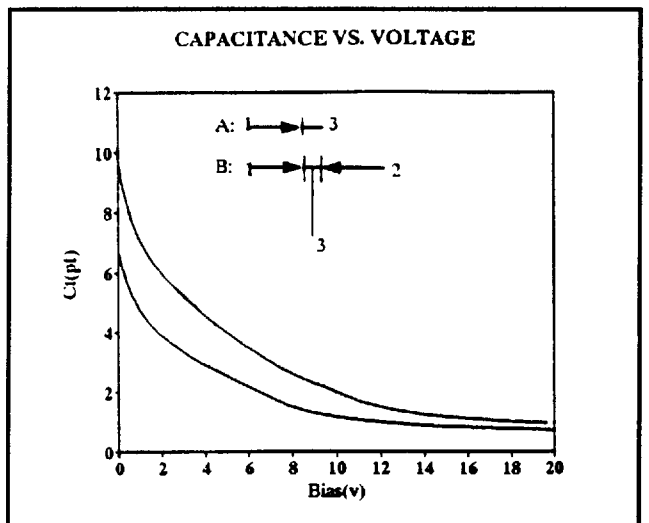
Outline Drawing



Absolute Maximum Ratings (Ta = 25 °C)

Reverse Voltage	Vr	22V
Forward Current	If	100mA
Power Dissipation	Pd	250mW
Junction Temperature	Tj	125°C
Storage Temperature	Tstg	-55 to 150°C

CAPACITANCE VS. VOLTAGE



Electrical Characteristics (Ta = 25 °C)

Parameter	Symbol	Test Condition	Specifications			
			Min	Typ	Max	Unit
Breakdown Voltage	Vb	Ir = 10μA	22.0	25.0	-	V
Reverse Leakage Current	Ir	Vr = 20V	-	<2.0	50.0	nA
Diode Capacitance (SMV1204-04,A,B) (SMV1204-05,A,B)	Ct1	Vr = 4V	2.5	-	3.3	pF
			4.5	-	5.5	
Diode Capacitance (SMV1204-04,A,B) (SMV1204-05,A,B)	Ct2	Vr = 20V	0.6	-	0.85	pF
			0.9	-	1.2	
Figure of Merit	Q	4V, 50MHz	600	-	-	-
Capacitance Variation	C	Vr = 4V	-	8	-	%

Specifications subject to change without notice.