



Chipsmall Limited consists of a professional team with an average of over 10 year of expertise in the distribution of electronic components. Based in Hongkong, we have already established firm and mutual-benefit business relationships with customers from,Europe,America and south Asia,supplying obsolete and hard-to-find components to meet their specific needs.

With the principle of “Quality Parts,Customers Priority,Honest Operation,and Considerate Service”,our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip,ALPS,ROHM,Xilinx,Pulse,ON,Everlight and Freescale. Main products comprise IC,Modules,Potentiometer,IC Socket,Relay,Connector.Our parts cover such applications as commercial,industrial, and automotives areas.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!



Contact us

Tel: +86-755-8981 8866 Fax: +86-755-8427 6832

Email & Skype: info@chipsmall.com Web: www.chipsmall.com

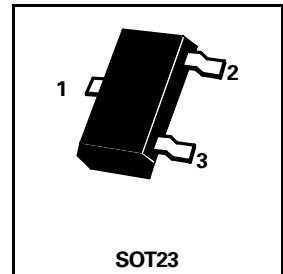
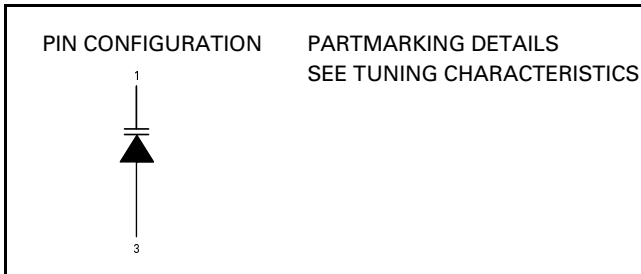
Address: A1208, Overseas Decoration Building, #122 Zhenhua RD., Futian, Shenzhen, China



SOT23 SILICON PLANAR VARIABLE CAPACITANCE DIODES

**FMMV2101
to
FMMV2109**

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ABSOLUTE MAXIMUM RATINGS.

PARAMETER	SYMBOL	VALUE	UNIT
Reverse Voltage	V_R	30	V
Forward Current	I_F	200	mA
Power Dissipation at $T_{amb}=25^\circ\text{C}$	P_{tot}	330	mW
Operating and Storage Temperature Range	$T_j; T_{stg}$	-55 to +150	$^\circ\text{C}$

ELECTRICAL CHARACTERISTICS (at $T_{amb} = 25^\circ\text{C}$).

PARAMETER	SYMBOL	MIN.	TYP.	MAX.	UNIT	CONDITIONS.
Reverse Breakdown Voltage	V_{BR}	30			V	$I_R = 10\mu\text{A}$
Reverse current	I_R			20	nA	$V_R = 25\text{V}$
Series Inductance	L_S		3.0		nH	$f=250\text{MHz}$ Lead length $\approx 1.5\text{mm}$
Diode Capacitance Temperature Coefficient	T_{CC}		280	400	ppm/ $^\circ\text{C}$	$V_R = 4\text{V}$, $f=1\text{MHz}$ Lead length $\approx 1.5\text{mm}$
Case Capacitance	C_C		0.15		pF	$f=1\text{MHz}$

TUNING CHARACTERISTICS (at $T_{amb} = 25^\circ\text{C}$).

Type No.	Nominal Capacitance (pF) $V_R = 4\text{V}$, $f=1\text{MHz}$			Q – Figure of MERIT $V_R = 4\text{V}$, $f=50\text{MHz}$	Turning Ratio C_2 / C_{30} $f=1\text{MHz}$		Partmark Detail
	Min.	Nom.	Max.		Min.	Max.	
FMMV2101	6.1	6.8	7.5	450	2.5	3.3	6R
FMMV2103	9.0	10.0	11.0	400	2.6	3.3	6G
FMMV2104	10.8	12.0	13.2	400	2.6	3.3	6H
FMMV2105	13.5	15.0	16.5	400	2.6	3.3	6J
FMMV2107	19.8	22.0	24.2	350	2.7	3.3	6L
FMMV2108	24.3	27.0	29.7	300	2.7	3.3	6M
FMMV2109	29.3	33.0	36.3	280	2.7	3.3	6N

* SELECTED DEVICE RANGE OFFERED ONLY