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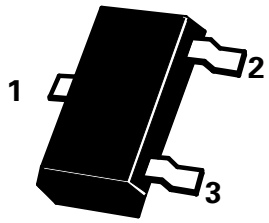
SOT23 SILICON PLANAR VARIABLE CAPACITANCE DIODES

ISSUE 3 – JANUARY 1996 ✪

FMMV2101 to FMMV2109

PIN CONFIGURATION

PARTMARKING DETAILS
SEE TUNING CHARACTERISTICS



SOT23

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°C	P_{tot}	330	mW
Operating and Storage Temperature Range	T_j:T_{stg}	-55 to +150	°C

ELECTRICAL CHARACTERISTICS (at T_{amb} = 25°C).

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

TUNING CHARACTERISTICS (at T_{amb} = 25°C).

Type No.	Nominal Capacitance (pF) V_R = 4V, f=1MHz			Q – Figure of MERIT V_R = 4V, f=50MHz	Turning Ratio C_2 / C_{30} f=1MHz		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