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SOT23 SILICON PLANAR VARIABLE CAPACITANCE DIODE

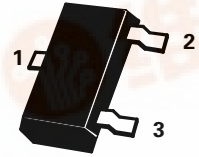
FMMV3102

ISSUE 3 – JANUARY 1998

PIN CONFIGURATION



PARTMARKING DETAIL
FMMV3102 – 4C



SOT23

ABSOLUTE MAXIMUM RATINGS.

PARAMETER	SYMBOL	VALUE	UNIT
Power Dissipation at $T_{amb}=25^{\circ}C$	P_{tot}	330	mW
Operating and Storage Temperature Range	$T_j:T_{stg}$	-55 to +150	$^{\circ}C$

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

PARAMETER	SYMBOL	MIN.	TYP.	MAX.	UNIT	CONDITIONS.
Reverse Breakdown Voltage	V_{BR}	30			V	$I_R = 10\mu A$
Reverse current	I_R			10	nA	$V_R = 25V$
Series Inductance	L_S		3.0		nH	$f=250MHz$
Diode Capacitance Temperature Coefficient	T_{CC}		280		ppm/ $^{\circ}C$	$V_R = 3V, f=1MHz$
Case Capacitance	C_C		0.1		pF	$f=1MHz$

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

PARAMETER	SYMBOL	MIN.	TYP.	MAX.	UNIT	CONDITIONS.
Diode Capacitance	C_d	20		25	pF	$V_R = 3V, f=1MHz$
Capacitance Ratio	C_d / C_d	4.5				$V_R = 3V/25V, f=1MHz$
Figure of MERIT	Q	200	300			$V_R = 3V, f=50MHz$

Spice parameter data is available upon request for this device

