

MPP4201 - MPP4204

MPL4700

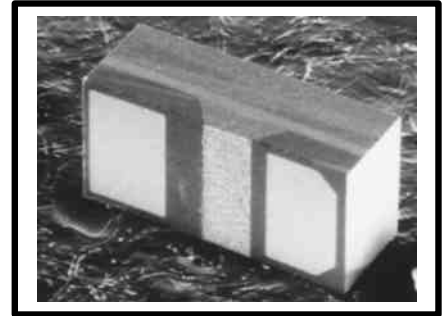
MPV1965

MPV2100

**MONOLITHIC MICROWAVE SURFACE MOUNT
MICRO-PAK PIN AND VARACTOR DIODES**

Features:

- Tape and Reeled for Automatic Assembly
- Low Series Inductance (<0.2nH typical)
- Low Parasitic Capacitance (0.06 pf typical)
- Optimized for PCS products
- Meets All Commercial Qualification Requirements



Description:

This series of surface mount PIN and Varactor diodes utilize new and unique monolithic MMSM technology. The technology is a package/device integration accomplished at the wafer fabrication level. Since the cathode and anode interconnections utilize precision photolithographic techniques rather than wire bonds, parasitic package inductance is tightly controlled. The package parasitics are optimized for PCS bands but devices can be used through X band.

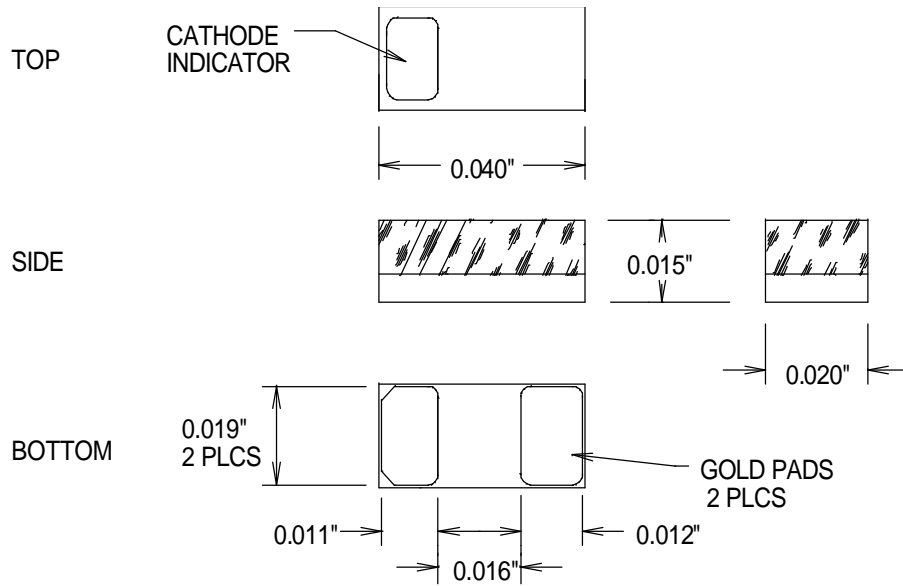
ELECTRICAL CHARACTERISTICS

Part #	Vb@10uA (min) - volts	Ct@10V (max) pf	Rs@10mA (max) - ohms	Rs@20mA (max) - ohms	Tl (typ) nsec	Outline Dwg Number	APPLICATION
MPP4201	70	0.20		2.5	150	206	High Power Switch
MPP4202	50	0.15		2.8	50	206	Magnetic Resonance Imaging
MPP4203	50	0.10		3.0	50	206	High Isolation Switch and Attenuator
MPP4204	25	0.15	2.0		30	206	High Speed Switch
MPL4700	25	0.15	2.0		20	206	Amplifier Protection

Part #	Vb@10uA (min) (volts)	Ct @1V (pf)	Ct 1V/ Ct 3V (pf)	Ct 1V/ Ct 6V (pf)	Q (min/4v/ 50MHz)	Outline Dwg Number	APPLICATION
MPV1965	15	2.6-3.8	1.4-2.2	2.6-3.6	1500	206	Low Voltage VCO
Part #	Vb@10uA (min) (volts)	Ct@4V (pf)	Ct @ 0V (typ) (pf)	Ct @ 20V (pf)	Q (min/4v/ 50MHz)	Outline Dwg Number	APPLICATION
MPV2100	22	0.9-1.5	3.25	0.2-0.5	1500	206	Wide Bandwidth VCO

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DIMENSIONS



ALL DIMENSION TOLERANCES ARE + .002"