MICROWAVE PRODUCTS DIVISION

MPP4201 – MPP4204, MPL4700

MONOLITHIC MICROWAVE SURFACE MOUNT MICRO-PAK PIN DIODES

PRODUCT PREVIEW

DESCRIPTION

This series of surface mount PIN 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 provide smooth non-resonant functionality through 12GHz.

KEY FEATURES

- Tape and Reeled for Automatic Assembly
- Low Series Inductance (<0.2nH typical)
- **Low Parasitic Capacitance (0.06 pf typical)**
- **Meets All Commercial Qualification Requirements**
- **0204 Outline**
- **Very low thermal resistance**

IMPORTANT: For the most current data, consult *MICROSEMI*'s website: **http://www.microsemi.com**

APPLICATIONS/BENEFITS

- **2.4 GHz PCS communications**
- **5.7 GHz Wireless LANS**
- **Solid State Switches, Attenuators, Limiters**
- **Phase Shifters**
- **Widest bandwidth of any commercial surface mounted devices**
- **Handles up to 10 watts incident RF power**
- **Ultra tight parametric distribution**

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

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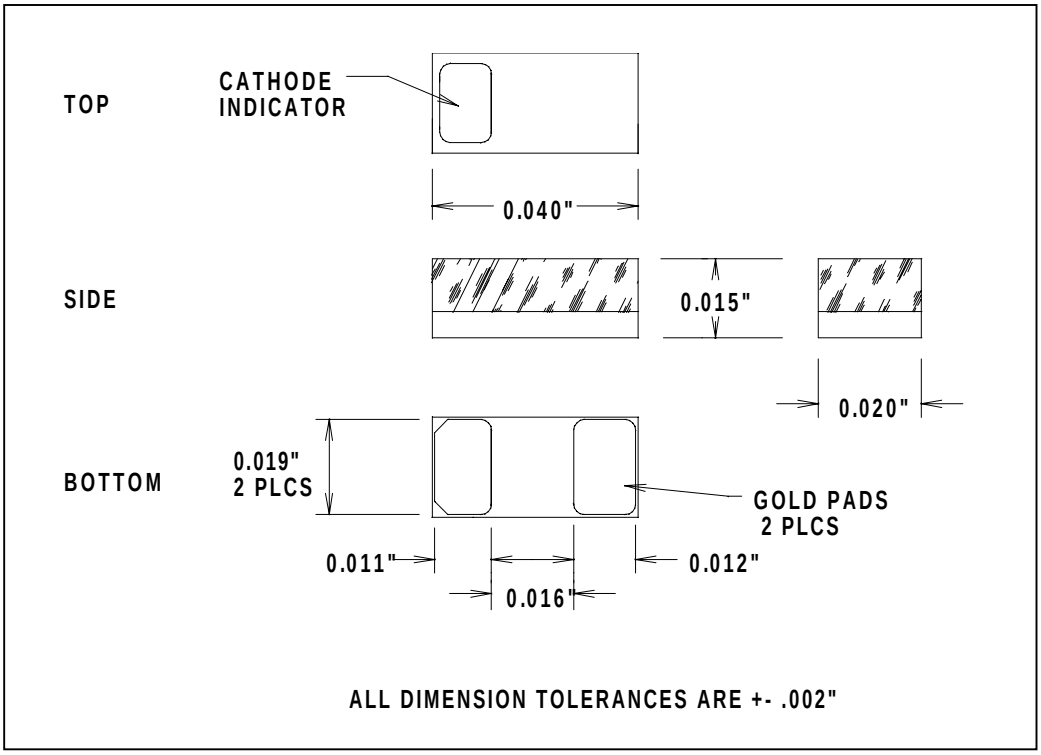
DIMENSIONS



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