

Schottky Diodes: MCM 500 Series**Medium Barrier Schottky Ring Quads****Description**

The **MicroMetrics** MCM 500 series of Medium Barrier Ring Quads consists of four closely matched diodes connected in a ring configuration. The diodes are formed monolithically providing close matching of capacitance, forward voltage and series resistance. These ring quads are available in our case style 26.

Applications

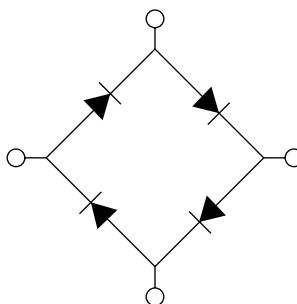
The Medium Barrier Schottky Ring Quads are ideally suited for use in doublers, modulators and as double balance mixers.

Features

- Low Junction Capacitance
- Monolithic Construction
- Low Series Resistance

Packaging

- CS 26

Diode Ring Circuit

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Schottky Diodes: MCM 500 Series**Electrical Characteristics**

Breakdown Voltage @10 μ A MIN (V)	Forward Voltage @1 mA MAX (V)	Delta Forward Voltage @1 mA MAX (mV)	Total Capacitance @0 Vdc 1 MHz TYP (pF)	Series Resistance @5 mA TYP (Ohms)	Part Number
3.0	0.35	15	0.08	8	MCM500
3.0	0.35	15	0.1	8	MCM501
3.0	0.4	15	0.12	12	MCM502
3.0	0.4	15	0.14	12	MCM503
3.0	0.45	15	0.18	18	MCM504
3.0	0.45	15	0.2	18	MCM505

Maximum Ratings

Operating Temperature	-55°C to + 150°C
Storage Temperature	-65°C to + 200°C
Power Dissipation @25°C	250mW (derate linearly to zero at 150°C)

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