

Schottky Diodes: MCL 400 Series

Low Barrier Schottky Ring Quads

Description

The **MicroMetrics** MCL 400 series of Low 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 Low Barrier Schottky Ring Quads are ideally suited for use in doublers, modulators and as double balance mixers.

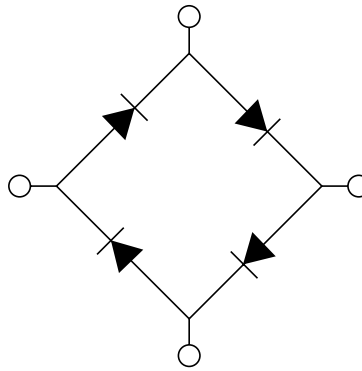
Features

- Low Junction Capacitance
- Monolithic Construction
- Low Series Resistance

Packaging

- CS 26

Diode Ring Circuit



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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 1MHz TYP (pF)	Series Resistance @5 mA TYP (Ohms)	Part Number
2.0	0.22	15	0.08	8	MCL400
2.0	0.25	15	0.1	8	MCL401
2.0	0.275	15	0.12	12	MCL402
2.0	0.3	15	0.14	12	MCL403
2.0	0.32	15	0.18	18	MCL404
2.0	0.34	15	0.2	18	MCL405

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)	

