

SCHOTTKY CROSSOVER QUAD

High Frequency Mixer Series (To 26.5 GHz)



FEATURES

- Extremely Low Junction Capacitance
- Monolithic Construction
- Small Physical Size
- Good Matching of Diode Junctions
- Low Series Resistance (4 Ohms)
- Available in 5 Barrier Heights
- Available with Tight Delta Matching

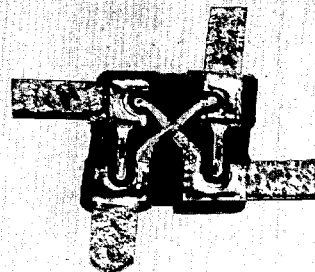
MAXIMUM RATINGS

Storage Temperature - 65 to + 150 °C
Operating Temperature - 65 to + 150 °C
Soldering Temperature, Chips . . . 230 °C for 30 sec.
Soldering Temperature, B.L. 230 °C for 10 sec.
DC Power Dissipation 75 mW max.
Derate Linearly to 0 mW at + 150 °C
Beam Lead Pull Strength 6 grams typ.

CAUTION: Static Sensitive Device

CROSSOVER QUAD DESCRIPTION

The Metelics Monolithic Crossover Quad Diode is constructed using advanced semiconductor technology, materials, and processes, resulting in lower series resistance (R_s) than those produced with conventional methods. The monolithic structure provides tight matching of the four junctions and minimizes the parasitic reactances. Devices are available in all four leaded packages (see Outline Drawings).



SPECIFICATIONS

Model (last three digits refer to Outline)	Vf at 1 mA mV Typ.	Cj at 0 V pF Typ.	Cj at 0 V pF Max.	Rd at 5 mA Ohms Typ.	Rd at 5 mA Ohms Max.
MSS-30, CR46-B49	280	0.090	0.125	15	22
MSS-30, CR53-B49	260	0.150	0.250	10	15
MSS-35, CR46-B49	380	0.090	0.125	15	22
MSS-35, CR53-B49	340	0.150	0.250	10	15
MSS-40, CR46-B49	470	0.090	0.125	15	22
MSS-40, CR53-B49	430	0.150	0.250	10	15
MSS-50, CR45-B49	530	0.090	0.125	15	22
MSS-50, CR53-B49	500	0.150	0.250	10	15
MSS-60, CR45-B49	620	0.090	0.125	15	22
MSS-60, CR53-B49	600	0.150	0.250	12	15

NOTES: Consult factory for special versions, configurations, packages, high reliability screening, or customer designs.

DISCLAIMER: This data sheet is issued to provide information only and Metelics Corporation reserves the right to alter without notice the specification, design, price, or conditions of supply of this product.

MTLXS020*

