MADS-003000-1292 Series



Surface Mount Schottky Dual Crossover Quad

M/A-COM Products Rev. V3

Features

- Designed for High Volume Applications
- Dual Crossover Quad Configuration
- Lead Free and RoHS* Compliant with 260°C Reflow Capability
- 100% Matte Tin Plating
- Available in SOT-26 (ODS-1292)
- Tape and Reel Deliverable

Description

M/A-COM's MADS-003000-1292LT and MADS-003000-1292HT are high performance silicon Schottky dual crossover quads. These parts are usable for a variety of mixer applications. The closely matched junctions minimize variation in capacitance, forward voltage and dynamic resistance within the four diodes in the quad. These diodes are available in a small profile surface mount package SOT-26 (ODS-1292). They are available in tape and reel for automatic pick and place assembly.

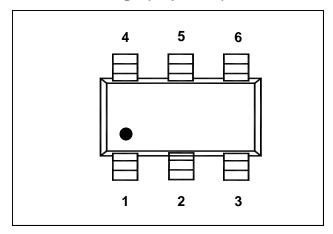
Associated Application Note

M538 - Surface Mount Instructions

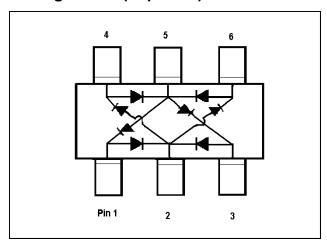
Ordering Information

Model Number	Package	
MADS-003000-1292LT	Tape and Reel	
MADS-003000-1292HT	Tape and Reel	

SOT-26 Package (Top View)



Configuration (Top View)



^{*} Restrictions on Hazardous Substances, European Union Directive 2002/95/EC.

[•] Europe Tel: 44.1908.574.200 / Fax: 44.1908.574.300

Asia/Pacific Tel: 81.44.844.8296 / Fax: 81.44.844.8298
Visit www.macom.com for additional data sheets and product information.

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Electrical Specifications @ +25°C

Part Number	Forward Voltage ¹			Junction Capacitance ²	Dynamic Resistance ³
	Vf Min. (mV)	Vf Max. (mV)	Delta Vf Max. (mV)	Cj Typical (pF)	Rd Max. (ohms)
MADS-003000-1292HT	515	600	10	.5	6.0
MADS-003000-1292LT	200	245	10	.5	7.0

- 1. Forward voltage is measured at If = 1 mA
- 2. Cj is measured at Vr = 0 volts and f = 1 MHz
- 3. Rd is measured @ If = 9.5 10.5 mA

Absolute Maximum Ratings @ 25°C 4,5

Parameter	Absolute Maximum	
Operating Temperature	-65°C to +125°C	
Storage Temperature	-65°C to +125°C	
Junction Temperature	+150°C	
RF Incident Power (CW)	75 mW	
Soldering Temperature	+260°C	

- 4. Exceeding these limits may cause permanent damage.
- 5. ESD Precautions Schottky diodes are ESD sensitive and can be damaged by static electricity. Proper ESD techniques must be used when handling these devices.

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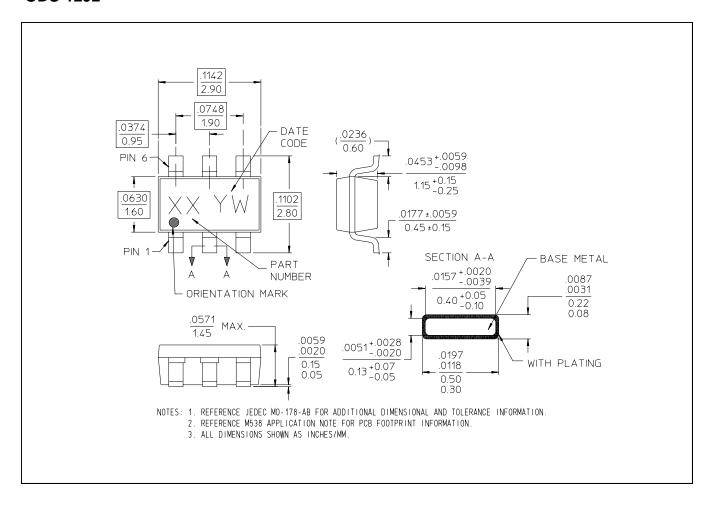
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Package Outline (SOT-26) ODS-1292



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