

Absolute Maximum Ratings at 25°C

Parameter	Absolute Maximum
Operating and Storage Temperature Range of Junctions	-65° to +150°C
Maximum Power Dissipation (Derate Linearity to 0 at 150°C)	at 25°C 75 mW/Junction
Soldering Temperature (Packaged Diodes)	235°C for 10 seconds
Beam Lead Strength	5 grams Min.

Electrical Specifications at 25°C

Packaged Diodes

Specifications						Typical Characteristics	
Model Number	Case Style	LO Test Frequency (GHz)	Maximum ⁴ Noise Figure NF (dB)	I _F ⁴ Impedance Min./Max. (Ohms)	Minimum ⁵ Reverse Voltage V _B	Nominal ^{1,3} Junction Capacitance C _j (pF)	Series Resistance R _S Min./Max. (Ohms)
MA40403	119	24	6.5	250 / 500	5	0.07	3 / 6
MA40404	119	36	6.5	250 / 500	5	0.06	3 / 6
MA40407	120	24	6.5	250 / 500	5	0.07	3 / 6
MA40408	120	36	6.5	250 / 500	5	0.06	3 / 6
MA40411	276	24	6.5	250 / 500	5	0.07	3 / 6
MA40412	276	36	6.5	250 / 500	5	0.06	3 / 6

Beam Leads and Chips

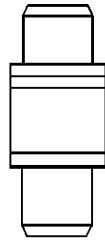
Specifications						Typical Characteristics	
Model Number	Case Style	Frequency Band	Series ³ Resistance Min./Max. (Ohms)	Junction ¹ Capacitance Min./Max. (pF)	Minimum ⁵ Reverse Voltage V _R	I _F Impedance Min./Max. (Ohms)	Nominal Noise Figure (dB)
MA40414	135	Ka	3 / 6	0.050 / 0.060	5	250 / 500	6.5
MA40415	1010	K	3 / 6	0.055 / 0.075	5	250 / 500	6.5
MA40416	1010	Ka	3 / 6	0.050 / 0.070	5	250 / 500	6.5
MA40417	1010	W	4 / 10	0.030 / 0.055	5	250 / 500	7.0 ¹⁰

Anti-Parallel Beam Leads

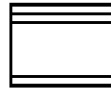
Specifications								Typical Characteristics
Model Number	Case Style	Frequency Band	Series ³ Resistance Min./Max. R _S (Ohms)	Junction ⁶ Capacitance Min./Max. C _j (pF)	Maximum ⁵ Junction Capacitance Difference ΔC _j (pF)	Minimum ⁵ Reverse Voltage V _R	Maximum ² Forward Voltage Difference ΔV _F (Volts)	Nominal ² Forward Voltage V _F (Volts)
MA40422	1013	K-Ka	3 / 6	0.10 / 0.20	0.025	5.0	0.015	0.700

Specifications Subject to Change Without Notice.

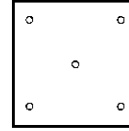
Case Styles (See appendix for complete styles)



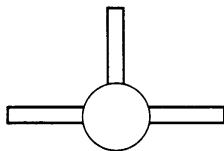
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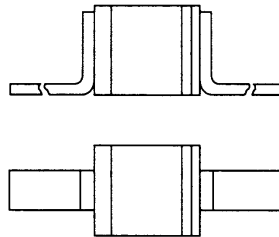
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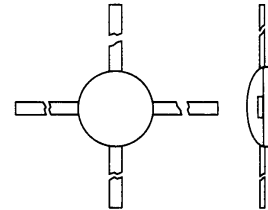
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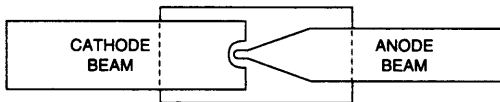
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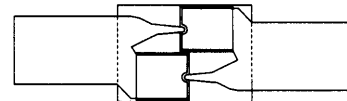
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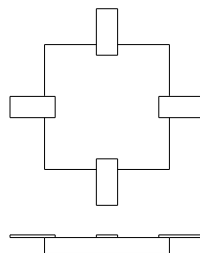
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1010



1013



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