MADP-000234-10720T

MELF PIN Diode
RoHS Compliant

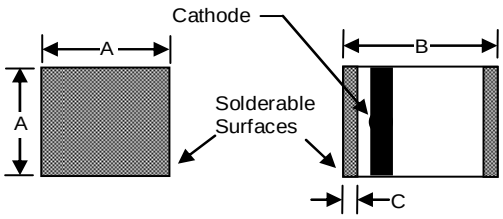
Rev. V3

Absolute Maximum Ratings[1,2] @ 25°C

Parameter	Absolute Maximum
Forward Voltage	0.85 V
Reverse Voltage	-500 V
Operating Temperature	-55°C to +150°C
Storage Temperature	-55°C to +175°C
Mounting Temperature	+260°C for 360 seconds

1. Exceeding these limits may cause permanent damage to the device.
2. Values will de-rate over temperature.

Case Style ODS 1072



Case Style	Size Inches (mm)		
	A (sq) Min./Max.	B Min./Max.	C Min./Max.
1072	0.080/0.095 (2.032/2.413)	0.115/0.135 (2.921/3.429)	0.008/0.030 (.203/.762)

All tolerances are ± .001" (± .025 mm).

Handling Procedures

The following precautions should be observed to avoid damaging these devices.

Cleanliness and Storage

These devices should be handled and stored in a clean environment. Ends of the device are tin plated for greater solderability. Continuous exposure to high humidity (>80%) for extended periods may cause the surface to oxidize. Caution should be taken when storing devices for long periods.

ESD

These devices are susceptible to ESD and are rated Class 1.

General Handling

Device can be handled with tweezers or vacuum pickups and are suitable for use with automatic pick-and-place equipment.

RoHS

The MADP-000234-10720T is fully RoHS compliant meaning it contains less than the maximum allowable concentration of 0.1% by weight in homogenous materials for lead, hex chrome, mercury, PBB, PBDE, and 0.01% for cadmium.

Mounting Techniques

Solder Attach

Typical wave soldering or reflow techniques may be used to mount M/A-COM's SMQ packages to circuit boards using Sn63/Pb37 alloy or RoHS compliant solders. For more information visit the M/A-COM web-site and read application note M538 at:http://www.macom.com/FileMapServlet/redirect.red?o=M538&t=0

ADVANCED: Data Sheets contain information regarding a product M/A-COM Technology Solutions is considering for development. Performance is based on target specifications, simulated results, and/or prototype measurements. Commitment to develop is not guaranteed.
PRELIMINARY: Data Sheets contain information regarding a product M/A-COM Technology Solutions has under development. Performance is based on engineering tests. Specifications are typical. Mechanical outline has been fixed. Engineering samples and/or test data may be available. Commitment to produce in volume is not guaranteed.

- **North America** Tel: 800.366.2266 / Fax: 978.366.2266
- **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.macomtech.com for additional data sheets and product information.

M/A-COM Technology Solutions Inc. and its affiliates reserve the right to make changes to the product(s) or information contained herein without notice.

www.BDTIC.com/MACOM

Electrical Specifications @ T_A = +25°C

Part Number	Minimum Reverse Voltage[2] I_R <10µA Volts	Maximum Capacitance C_T @100V f = 1MHz pF	Maximum Series Res. R_S @100mA f = 100MHz Ω	CW Power Dissipation Rating Watts	Nominal Characteristics		
					Typical I_F When R_S = 75Ω mA	Carrier Lifetime[3] µS	I-Region Width mils
MADP-000234-10720T	500	1.5	0.25	3.0	—	3.0	50.0

Notes
1. Rs is measured on an HP4191A Impedance Analyzer
2. Minority Carrier Lifetime Measured at from 50% Control Voltage to 50 % Output Voltage.

ADVANCED: Data Sheets contain information regarding a product M/A-COM Technology Solutions is considering for development. Performance is based on target specifications, simulated results, and/or prototype measurements. Commitment to develop is not guaranteed.
PRELIMINARY: Data Sheets contain information regarding a product M/A-COM Technology Solutions has under development. Performance is based on engineering tests. Specifications are typical. Mechanical outline has been fixed. Engineering samples and/or test data may be available. Commitment to produce in volume is not guaranteed.

- **North America** Tel: 800.366.2266 / Fax: 978.366.2266
- **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.macomtech.com for additional data sheets and product information.

M/A-COM Technology Solutions Inc. and its affiliates reserve the right to make changes to the product(s) or information contained herein without notice.

www.BDTIC.com/MACOM