

## Absolute Maximum Ratings<sup>1,2</sup> @ 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.

## 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.

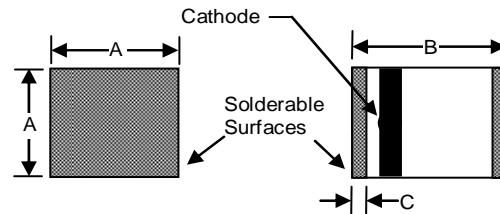
## ESD

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.

## 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  $\pm .001''$  ( $\pm .025$  mm).

## 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 website and read application note M538 at: <http://www.macom.com/FileMapServlet/redirect.redirect?o=M538&t=0>

## Electrical Specifications @ $T_A = +25^\circ\text{C}$

Part Number	Minimum Reverse Voltage <sup>2</sup> $I_R < 10\mu\text{A}$ Volts	Maximum Capacitance $C_T @ 100\text{V}$ $f = 1\text{MHz}$ pF	Maximum Series Res. $R_S @ 100\text{mA}$ $f = 100\text{MHz}$ $\Omega$	CW Power Dissipation Rating  Watts	Nominal Characteristics		
					Typical $I_F$ When $R_S = 75\Omega$ mA	Carrier Lifetime <sup>3</sup> $\mu\text{S}$	I-Region Width mils
MADP-000234-10720T	500	1.5	0.25	3.0	—	3.0	50.0

### Notes

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