imall

Chipsmall Limited consists of a professional team with an average of over 10 year of expertise in the distribution of electronic components. Based in Hongkong, we have already established firm and mutual-benefit business relationships with customers from, Europe, America and south Asia, supplying obsolete and hard-to-find components to meet their specific needs.

With the principle of "Quality Parts, Customers Priority, Honest Operation, and Considerate Service", our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip, ALPS, ROHM, Xilinx, Pulse, ON, Everlight and Freescale. Main products comprise IC, Modules, Potentiometer, IC Socket, Relay, Connector. Our parts cover such applications as commercial, industrial, and automotives areas.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!



Contact us

Tel: +86-755-8981 8866 Fax: +86-755-8427 6832 Email & Skype: info@chipsmall.com Web: www.chipsmall.com Address: A1208, Overseas Decoration Building, #122 Zhenhua RD., Futian, Shenzhen, China







SDMP0340LT /LST /LCT /LAT

SURFACE MOUNT SCHOTTKY BARRIER DIODE

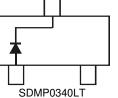
Features

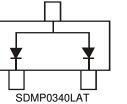
- Low Forward Voltage Drop
- Guard Ring Die Construction for Transient Protection
- Ideal for Low Logic Level Applications
- Low Capacitance
- Lead Free/RoHS Compliant (Note 3)
- "Green" Device (Note 4 and 5)

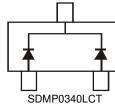
Mechanical Data

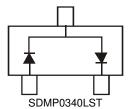
- Case: SOT-523
- Case Material: Molded Plastic. UL Flammability Classification Rating: 94V-0
- Moisture Sensitivity: Level 1 per J-STD-020D
- Terminals: Solderable per MIL-STD-202, Method 208
- Lead Free Plating (Matte Tin Finish annealed over Alloy 42 leadframe).
- Polarity: See Diagrams Below
- Marking Information: See Page 3
- Ordering Information: See Page 3
- Weight: 0.002 grams (approximate)











Maximum Ratings @T_A = 25°C unless otherwise specified

Characteristic		Symbol	Value	Unit
Peak Repetitive Reverse Voltage Working Peak Reverse Voltage DC Blocking Voltage		V _{RRM} V _{RWM} V _R	40	V
RMS Reverse Voltage		V _{R(RMS)}	28	V
Forward Continuous Current (N	lote 1)	I _{FM}	30	mA
Non-Repetitive Peak Forward Surge Current @8.3ms Single half sine-wave superimposed on rated load		I _{FSM}	200	mA

Thermal Characteristics

Characteristic		Symbol	Value	Unit
Power Dissipation	(Note 1)	PD	150	mW
Thermal Resistance, Junction to Ambient	(Note 1)	$R_{ extsf{ heta}JA}$	833	°C/W
Operating and Storage Temperature Range		T _{J,} T _{STG}	-40 to +125	°C

Electrical Characteristics @T_A = 25°C unless otherwise specified

Characteristic	Symbol	Min	Тур	Max	Unit	Test Condition	
Reverse Breakdown Voltage	(Note 2)	V _{(BR)R}	40	_	_	V	I _{R =} 10uA
Forward Voltage Drop		V _F	_	290	370	mV	I _F = 1mA
Leakage Current	(Note 2)	I _R	_	_	1.0	μA	V _R = 10V
Total Capacitance		Ст		2	_	pF	V _R = 1V, f = 1.0 MHz

Notes: 1. Device mounted on FR-4 PC board with recommended pad layout, which can be found on our website at

http://www.diodes.com/datasheets/ap02001.pdf.

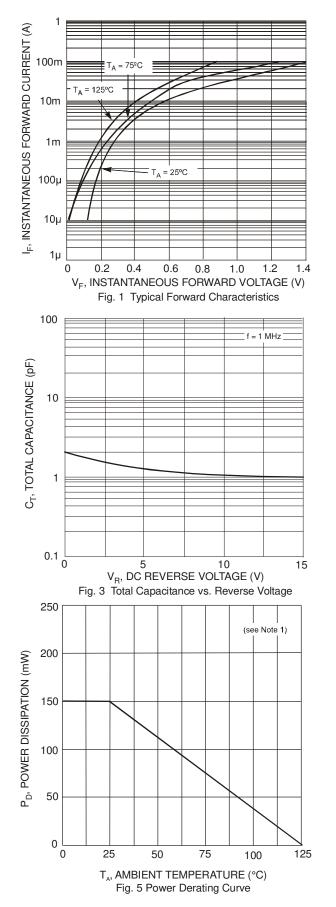
2. Short duration pulse test used to minimize self-heating effect.

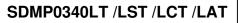
3. No purposefully added lead.

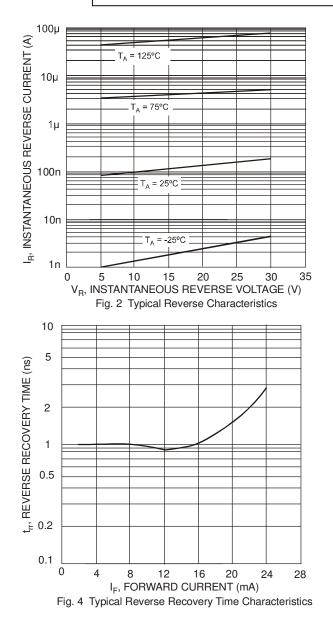
4. Diodes Inc.'s "Green" policy can be found on our website at http://www.diodes.com/products/lead_free/index.php.

5. Product manufactured with Date Code UO (week 40, 2007) and newer are built with Green Molding Compound. Product manufactured prior to Date Code UO are built with Non-Green Molding Compound and may contain Halogens or Sb2O3 Fire Retardants.









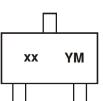


Ordering Information (Note 6)

Device	Packaging	Shipping
SDMP0340LT-7-F	SOT-523	3000/Tape & Reel
SDMP0340LST-7-F	SOT-523	3000/Tape & Reel
SDMP0340LCT-7-F	SOT-523	3000/Tape & Reel
SDMP0340LAT-7-F	SOT-523	3000/Tape & Reel

Notes: 6. For packaging details, go to our website at http://www.diodes.com/datasheets/ap02007.pdf.

Marking Information

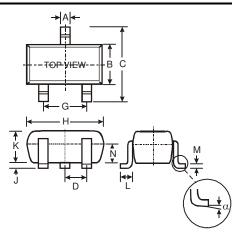


xx = Product Type Marking Code SM = SDMP0340LT SQ = SDMP0340LAT SP = SDMP0340LCT SN = SDMP0340LST YM = Date Code Marking Y = Year (ex: N = 2002) M = Month (ex: 9 = September)

Date Code Key

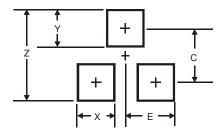
Year	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015
Code	М	Ν	Р	R	S	Т	U	۷	W	Х	Y	Z	Α	В	С
Month	Jan	Fe	b I	Mar	Apr	Мау	Ju	n	Jul	Aug	Sep	Oc	t I	Vov	Dec
Code	1	2		3	4	5	6		7	8	9	0		Ν	D

Package Outline Dimensions



SOT-523							
Dim	Min	Max	Тур				
Α	0.15	0.30	0.22				
В	0.75	0.85	0.80				
С	1.45	1.75	1.60				
D			0.50				
G	0.90	1.10	1.00				
н	1.50	1.70	1.60				
J	0.00	0.10	0.05				
К	0.60	0.80	0.75				
L	0.10	0.30	0.22				
М	0.10	0.20	0.12				
Ν	0.45	0.65	0.50				
α	0°	8°					
All	All Dimensions in mm						

Suggested Pad Layout



Dimensions	Value (in mm)
Z	1.8
Х	0.4
Y	0.51
С	1.3
E	0.7



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