

SDMP0340LT /LST /LCT /LAT

SURFACE MOUNT SCHOTTKY BARRIER DIODE

Features

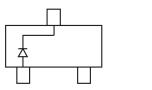
- Low Forward Voltage Drop
- Guard Ring Die Construction for Transient Protection
- Ideal for low logic level applications
- Low Capacitance
- Lead Free/RoHS Compliant (Note 3)

Mechanical Data

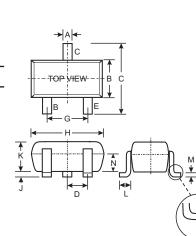
- Case: SOT-523
- Case Material: Molded Plastic. UL Flammability Classification Rating: 94V-0
- Moisture Sensitivity: Level 1 per J-STD-020C
- Terminals: Solderable per MIL-STD-202, Method 208
- Lead Free Plating (Matte Tin Finish annealed over Alloy 42 leadframe).

Maximum Ratings @ T_A = 25°C unless otherwise specified

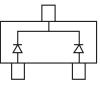
- Polarity: See Diagrams Below
- Marking: See Diagrams Below & Page 3
- Weight: 0.002 grams (approx.)
- Ordering Information, see Page 3







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	H 1.50		1.60					
J	0.00	0.10	0.05					
Κ	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 Dimensions in mm								





SDMP0340LT Marking: SM

Thermal Resistance, Junction to Ambient (Note 1)

Operating and Storage Temperature Range

SDMP0340LAT Marking: SQ

SDMP0340LCT Marking: SP

833

-40 to +125

SDMP0340LST Marking: SN

Unit

V

V

mΑ

mΑ

mW

°C/W

°C

Characteristic Symbol Value Peak Repetitive Reverse Voltage VRRM V_{RWM} V_R Working Peak Reverse Voltage 40 DC Blocking Voltage **RMS Reverse Voltage** V_{R(RMS)} 28 Forward Continuous Current (Note 1) IFM 30 Non-Repetitive Peak Forward Surge Current @8.3ms Single half sine-wave superimposed on rated load I_{FSM} 200 Power Dissipation (Note 1) P_d 150

Electrical Characteristics @ T_A = 25°C unless otherwise specified

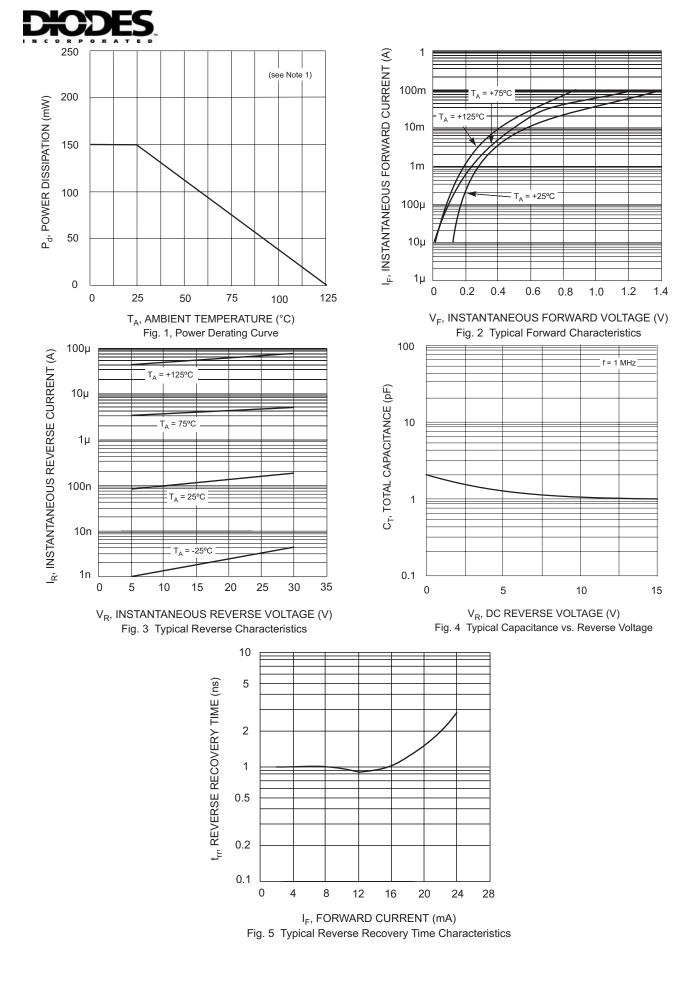
Characteristic		Min	Тур	Max	Unit	Test Condition
Reverse Breakdown Voltage (Note 2)	V _{(BR)R}	40			V	I _R = 10uA
Forward Voltage Drop	VF		290	370	mV	I _F = 1mA
Leakage Current (Note 2)	I _R			1.0	μA	V _R = 10V
Total Capacitance	CT		2		pF	V _R = 1V, f = 1.0 MHz

 $R_{\theta JA}$

Ti, TSTG

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 test pulse used to minimize self-heating effect.

3. No purposefully added lead.





Ordering Information (Note 4)

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

Notes: 4. For Packaging Details: go to our website at http://www.diodes.com/datasheets/ap02007.pdf.

Marking Information



XX = Product Type Marking Code (See Page 1) 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
Code	М	N	Р	R	S	Т	U	V	W	Х	Y	Z
Month	Jan	Feb	March	Apr	Мау	Jun	Jul	Aug	Sep	Oct	Nov	Dec
Code	1	2	3	4	5	6	7	8	9	0	Ν	D

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