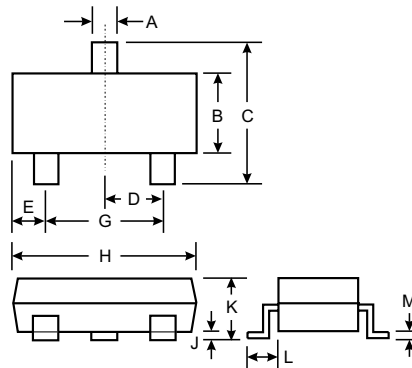


Features

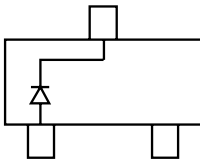
- Low Forward Voltage Drop
- Fast Switching
- Ultra-Small Surface Mount Package
- PN Junction Guard Ring for Transient and ESD Protection

Mechanical Data

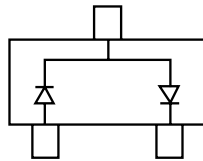
- Case: SOT-323, Molded Plastic
- Terminals: Solderable per MIL-STD-202, Method 208
- Polarity: See Diagrams
- Marking: Date Code and Marking Code (See Diagrams)
- Weight: 0.006 grams (approx.)



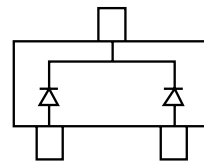
SOT-323		
Dim	Min	Max
A	0.30	0.40
B	1.15	1.35
C	2.00	2.20
D	0.65 Nominal	
E	0.30	0.40
G	1.20	1.40
H	1.80	2.20
J	0.0	0.10
K	0.90	1.00
L	0.25	0.40
M	0.10	0.25
All Dimensions in mm		



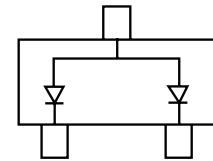
SDMG0340L Marking: KSM



SDMG0340LS Marking: KSN



SDMG0340LC Marking: KSP



SDMG0340LA Marking: KSQ

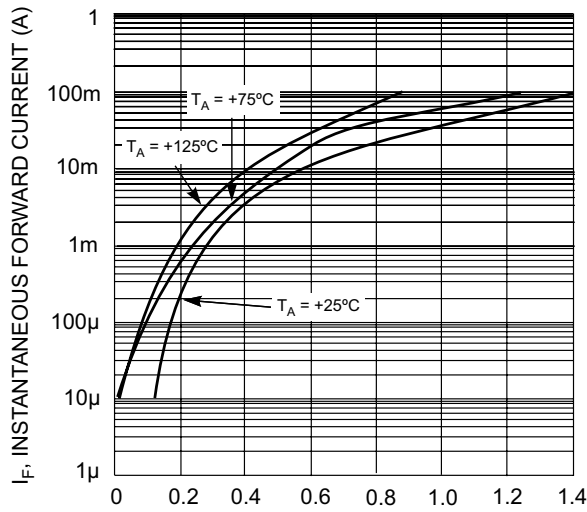
Maximum Ratings @ T_A = 25°C unless otherwise specified

Characteristic	Symbol	Value	Unit
Peak Repetitive Reverse Voltage	V _{RRM}	40	V
Working Peak Reverse Voltage	V _{RWM}		
DC Blocking Voltage	V _R		
RMS Reverse Voltage	V _{R(RMS)}	28	V
Average Rectified Current	I _O	30	mA
Non-Repetitive Peak Forward Surge Current @ t = 8.3ms	I _{FSM}	200	mA
Power Dissipation	P _d	200	mW
Thermal Resistance Junction to Ambient Air	R _{θJA}	625	°C/W
Operating Junction Temperature Range	T _J	-40 to +125	°C
Storage Temperature Range	T _{STG}	-40 to +125	°C

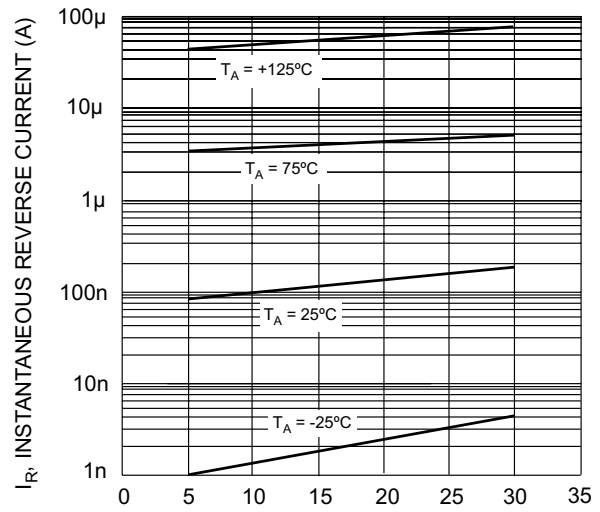
Electrical Characteristics @ T_A = 25°C unless otherwise specified

Characteristic	Symbol	Min	Typ	Max	Unit	Test Condition
Reverse Breakdown Voltage (Note 1)	V _{(BR)R}	40	—	—	V	I _R = 10μA
Forward Voltage (Note 1)	V _F	—	295	370	mV	I _F = 1.0mA
Leakage Current (Note 1)	I _R	—	150	1000	nA	V _R = 10V
Junction Capacitance	C _J	—	2.0	—	pF	V _R = 1V, f = 1.0MHz

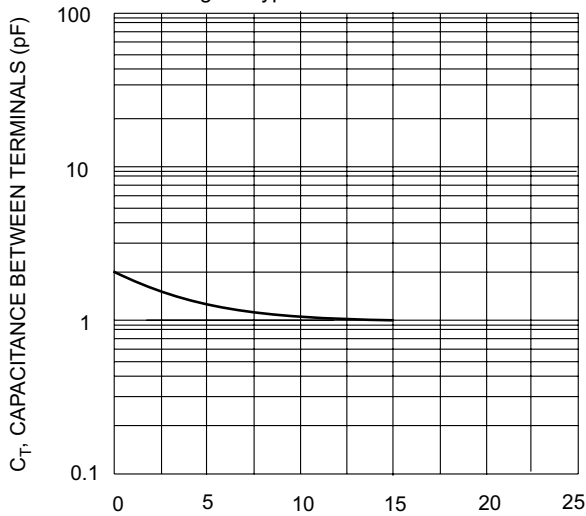
Notes: 1. Short duration test pulse to minimize self-heating effect.



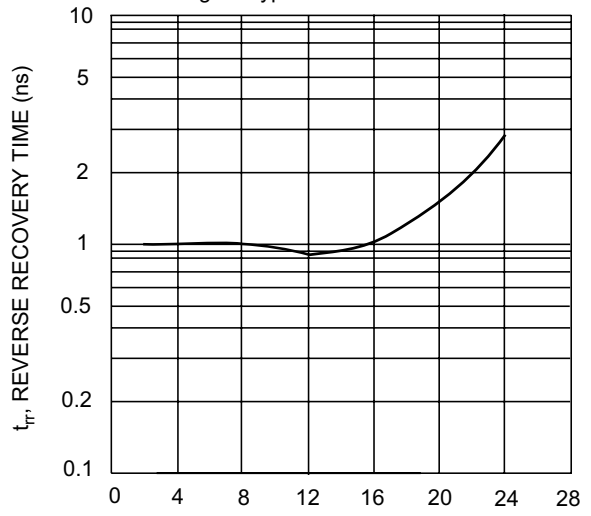
V_F, INSTANTANEOUS FORWARD VOLTAGE (V)
Fig. 1 Typical Forward Characteristics



V_R, INSTANTANEOUS REVERSE VOLTAGE (V)
Fig. 2 Typical Reverse Characteristics



V_R, REVERSE VOLTAGE (V)
Fig. 3 Typical Capacitance Between Terminals Characteristics



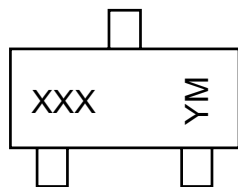
I_F, FORWARD CURRENT (mA)
Fig. 4 Typical Reverse Recovery Time Characteristics

Ordering Information (Note 2)

Device	Packaging	Shipping
SDMG0340LT-7	SOT-523	3000/Tape & Reel
SDMG0340LST-7	SOT-523	3000/Tape & Reel
SDMG0340LCT-7	SOT-523	3000/Tape & Reel
SDMG0340LAT-7	SOT-523	3000/Tape & Reel

Notes: 2. For Packaging Details, go to our website at <http://www.diodes.com/datasheets/ap02007.pdf>.

Marking Information



XXX = Product Type Marking Code
See Sheet 1
YM = Date Code Marking
Y = Year ex: N = 2002
M = Month ex: 9 = September

Date Code Key

Year	1998	1999	2000	2001	2002	2003	2004
Code	J	K	L	M	N	O	P

Month	Jan	Feb	March	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
Code	1	2	3	4	5	6	7	8	9	O	N	D