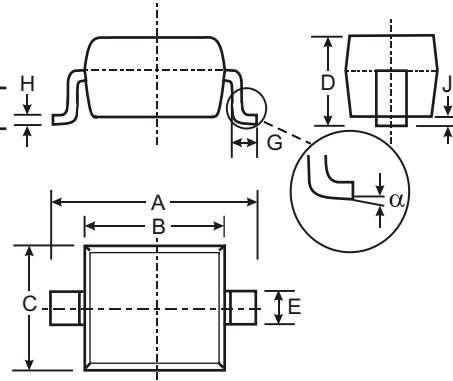


Features

- Low Forward Voltage Drop
- Guard Ring Die Construction for Transient Protection
- Ideal for low logic level applications
- Low Capacitance

Mechanical Data

- Case: SOD-323, Plastic
- Case material - UL Flammability Rating Classification 94V-0
- Moisture Sensitivity: Level 1 per J-STD-020A
- Polarity: Cathode Band
- Leads: Solderable per MIL-STD-202, Method 208
- Marking: Marking Code and Date Code
- Marking Code: SR
- Weight: 0.004 grams (approx.)



SOD-323		
Dim	Min	Max
A	2.30	2.70
B	1.60	1.80
C	1.20	1.40
D	1.05 Typical	
E	0.25	0.35
G	0.20	0.40
H	0.10	0.15
J	0.05 Typical	
α	0°	8°
All Dimensions in mm		

Maximum Ratings @ T_A = 25°C unless otherwise specified

Characteristic	Symbol	SDMK0340L	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
Average Rectified Current	I _O	30	mA
Non-Repetitive Peak Forward Surge Current @ 8.3ms Single half sine-wave superimposed on rated load (JEDEC method)	I _{FSM}	200	mA
Power Dissipation	P _d	160	mW
Thermal Resistance, Junction to Ambient Air	R _{θJA}	625	°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	Typ	Max	Unit	Test Condition
Reverse Breakdown Voltage (Note 1)	V _{(BR)R}	40	—	—	V	I _R = 10μA
Forward Voltage Drop (Note 1)	V _F	—	290	370	mV	I _F = 1mA
Leakage Current (Note 1)	I _R	—	0.20	0.5	μA	V _R = 30V
Total Capacitance	C _T	—	2	—	pF	V _R = 1V f = 1.0 MHz

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

Ordering Information (Note 2)

Device	Packaging	Shipping
SDMK0340L-7	SOD-323	3000/Tape & Reel

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

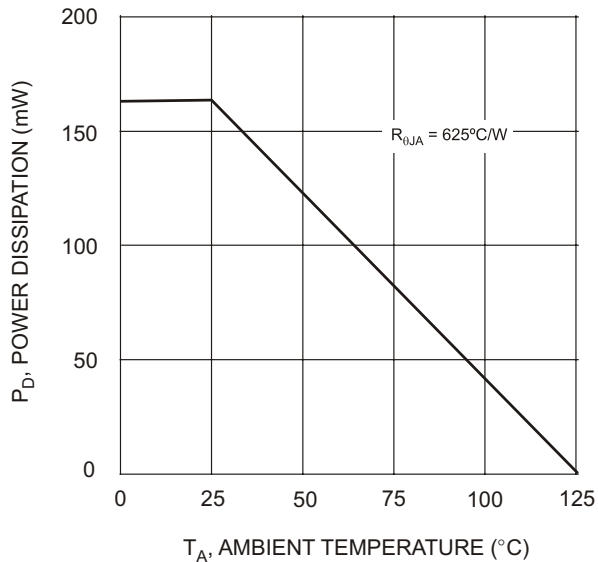


Fig. 1 Derating Curve

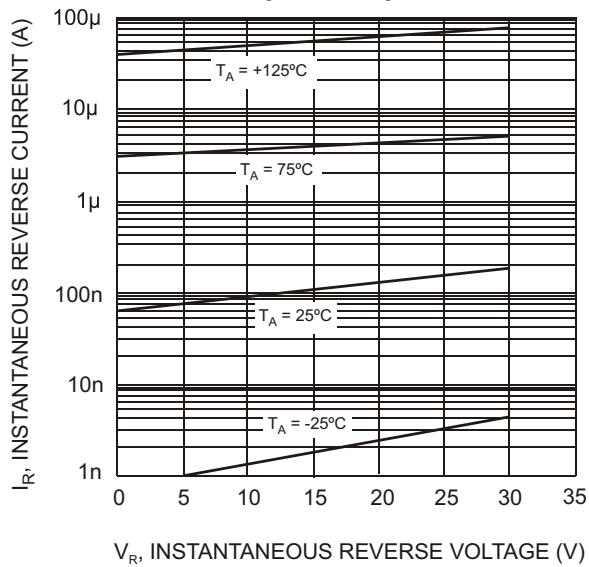


Fig. 3 Typical Reverse Characteristics

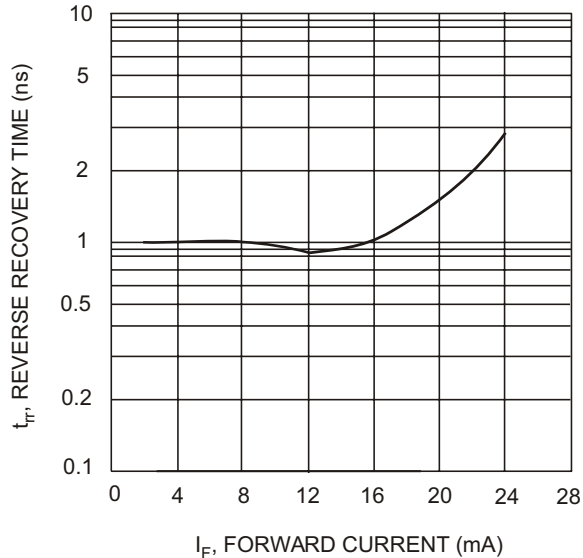


Fig. 5 Typical Reverse Recovery Time Characteristics

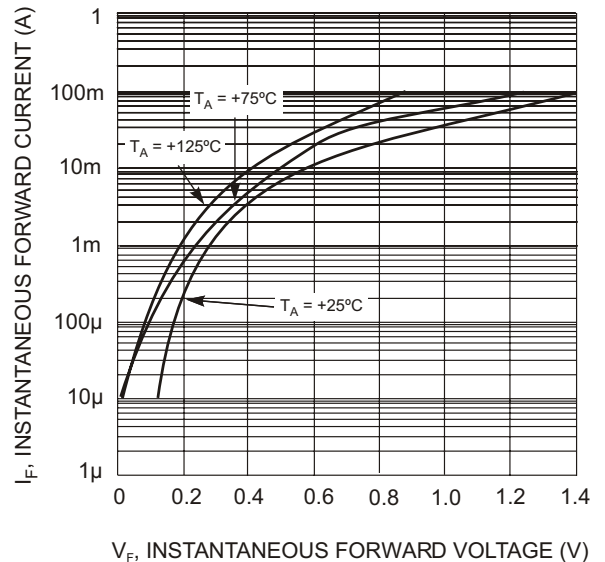


Fig. 2 Typical Forward Characteristics

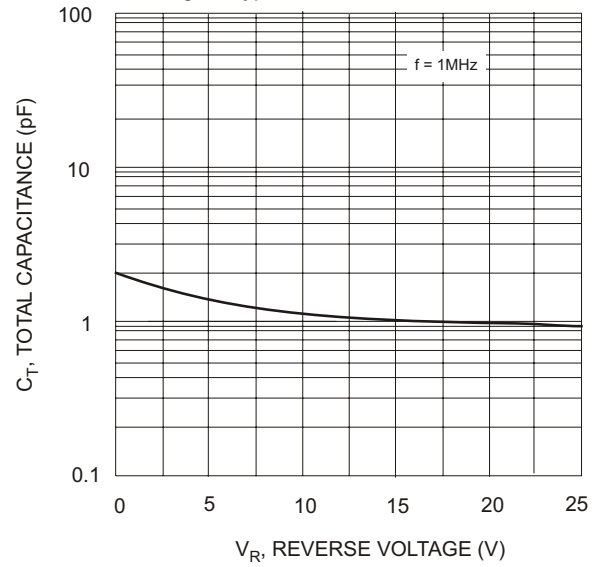


Fig. 4 Total Capacitance vs. DC Voltage

Marking Information



SR = Product Type Marking Code
See Sheet 1