

SDMK0340L

Min

2.30

1.60

1.20

0.25

0.20

0.10

0°

1.05 Typical

0.05 Typical

Max

2.70

1.80

1.40

0.35

0.40

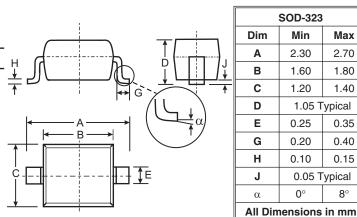
0.15

8°

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: SOD-323 .
- Case Material: Molded Plastic. UL Flammability • Classification Rating 94V-0
- Moisture Sensitivity: Level 1 per J-STD-020C .
- Leads: Solderable per MIL-STD-202, Method 208 •
- Lead Free Plating (Matte Tin Finish annealed over Alloy 42 leadframe).
- Polarity: Cathode Band
- Marking: Marking Code and Date Code
- Marking Code: SR .
- Weight: 0.004 grams (approx.) •



Maximum Rating	S @ $T_A = 25^{\circ}C$ 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	
Maximum (Peak) Forward Current	I _{FM}	30	mA	
Non-Repetitive Peak Forward Surge Current @8.3ms Single half sine-wave superimposed on rated load (JEDEDC method)	I _{FSM}	200	mA	
Power Dissipation	Pd	160	mW	
Thermal Resistance, Junction to Ambient Air	R _{0JA}	625	°C/W	
Operating and Storage Temperature Range	T _i , T _{STG}	-40 to +125	°C	

Electrical Characteristics @ $T_A = 25^{\circ}C$ unless otherwise specified

Characteristic	Symbol	Min	Тур	Max	Unit	Test Condition
Reverse Breakdown Voltage (Note 1)	V _{(BR)R}	40		—	V	I _R = 10uA
Forward Voltage Drop	VF		290	370	mV	$I_F = 1mA$
Leakage Current (Note 1)	I _R		0.20	0.5	μA	V _R = 30V
Total Capacitance	CT		2	—	pF	$V_R = 1V$ f = 1.0 MHz

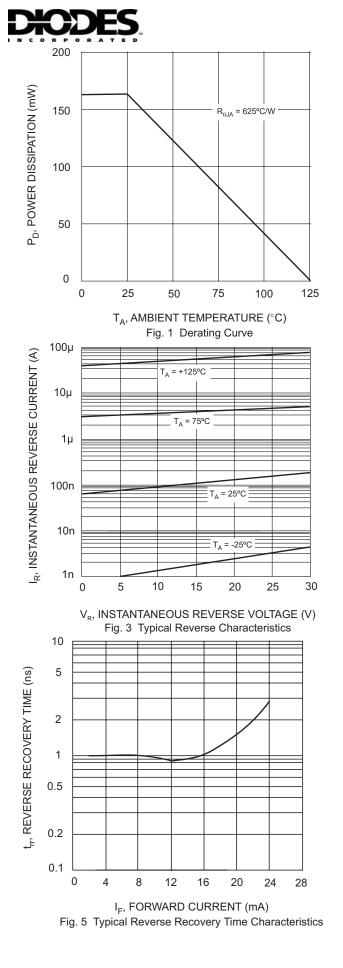
Notes: 1. Short duration test pulse to minimize self-heating effect.

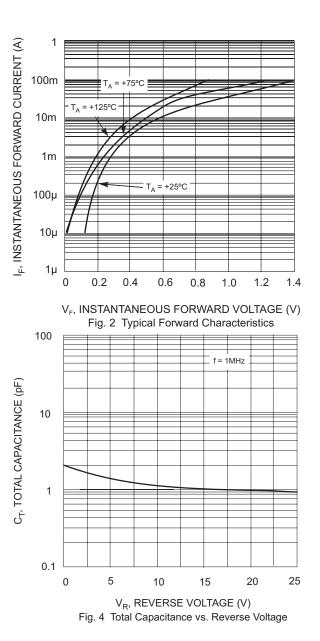
Ordering Information (Note 2)

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

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

3. No purposefully added lead.









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