

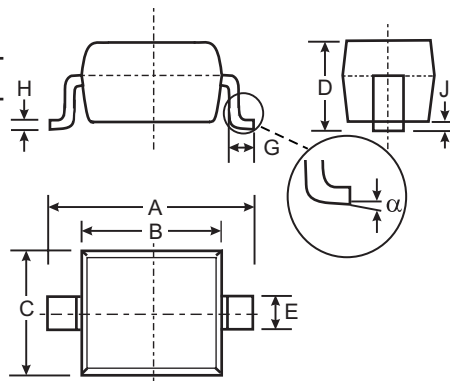
SURFACE MOUNT SCHOTTKY BARRIER DIODE

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.)



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 @ $T_A = 25^\circ\text{C}$ 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 (JEDEC method)	I_{FSM}	200	mA
Power Dissipation	P_d	160	mW
Thermal Resistance, Junction to Ambient Air	$R_{\theta JA}$	625	$^\circ\text{C/W}$
Operating and Storage Temperature Range	T_J, T_{STG}	-40 to +125	$^\circ\text{C}$

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

Characteristic	Symbol	Min	Typ	Max	Unit	Test Condition
Reverse Breakdown Voltage (Note 1)	$V_{(BR)R}$	40	—	—	V	$I_R = 10\mu\text{A}$
Forward Voltage Drop	V_F	—	290	370	mV	$I_F = 1\text{mA}$
Leakage Current (Note 1)	I_R	—	0.20	0.5	μA	$V_R = 30\text{V}$
Total Capacitance	C_T	—	2	—	pF	$V_R = 1\text{V}$ $f = 1.0\text{MHz}$

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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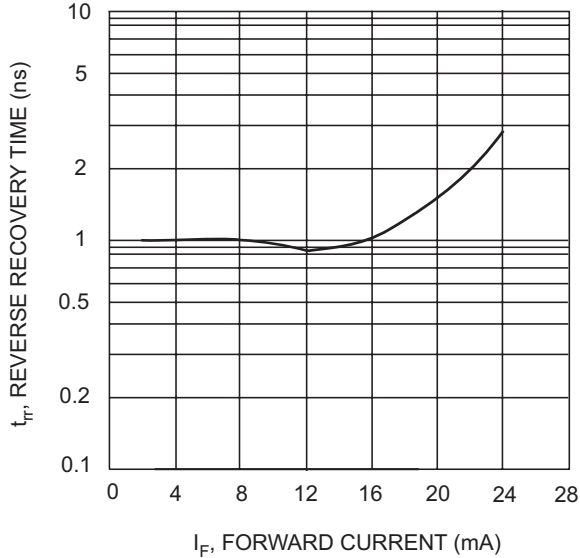
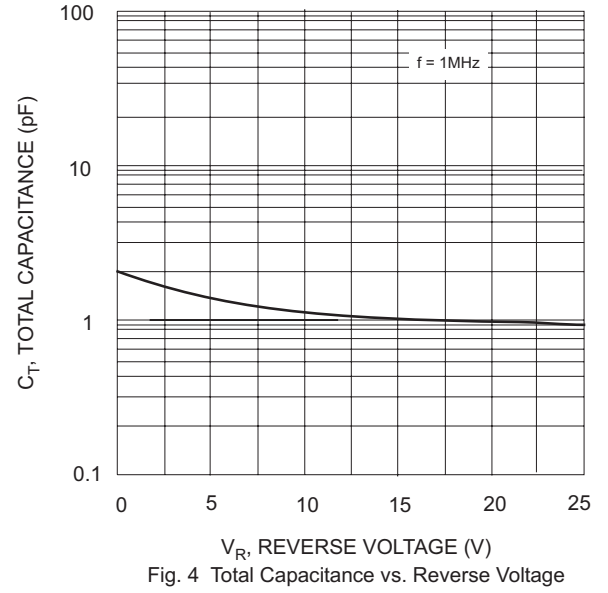
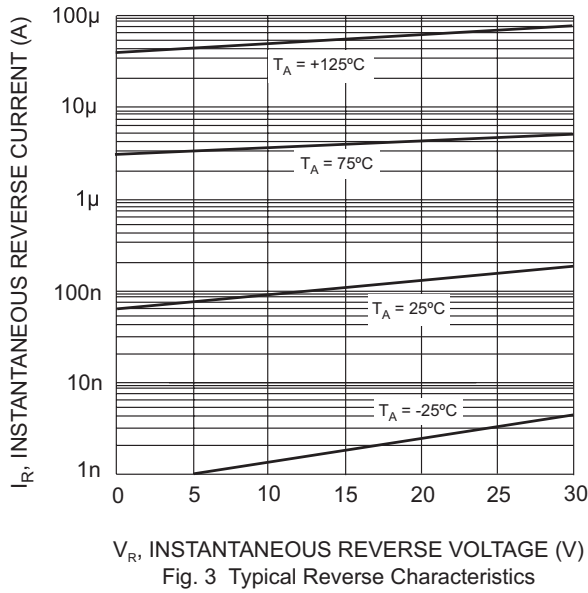
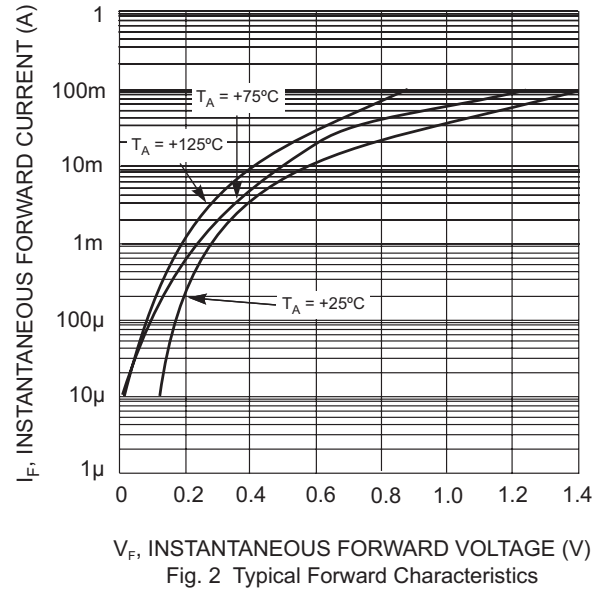
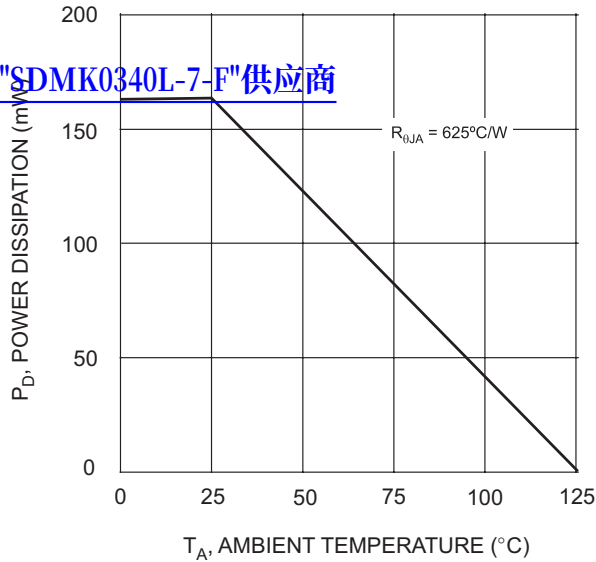


Fig. 5 Typical Reverse Recovery Time Characteristics

Marking Information

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SR = Product Type Marking Code
See Sheet 1

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