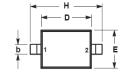


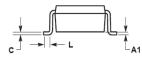


SURFACE MOUNT SCHOTTKY BARRIER DIODE

Features

- High Breakdown Voltage.
- Low Turn-on Voltage.
- Guard Ring Construction for Transient.
- Marking Code: S9







SOD-323						
Dim.	Min.	Max.				
Α	0.80	1.10				
A1	0.00	0.10				
А3	0.15 REF					
В	0.25	0.40				
С	0.10	0.15				
D	1.60	1.80				
Е	1.15	1.35				
L	0.20	0.50				
Н	2.30	2.80				
Dimensions in millimeter						

Maximum Ratings @ TA = 25°C unless otherwise specified

Parameter	Symbol	Value	Unit
Peak Reverse Voltage	V_{RM}	100	V
Reverse Voltage	V_R	100	V
Average Rectified Forward Current	I _{F(AV)}	150	mA
Non-repetitive Peak Forward Surge Current at t = 8.3 ms	I _{FSM}	750	mA
Power Dissipation	P _{tot}	200	mW
Thermal Resistance from Junction to Ambient Air	$R_{\theta JA}$	500	°C/W
Junction Temperature	Tj	125	$^{\circ}$
Storage Temperature Range	T _{stg}	- 55 to + 150	$^{\circ}$

Electrical Characteristics @ TA = 25°C unless otherwise specified

Parameter	Symbol	Test Conditions	Min	Тур	Max	Unit
Reverse breakdown voltage(Note 2)	V _R	I _R = 100μA	100			V
Reverse voltage leakage current	I _R	V _{R1} =1.5V			0.3	μΑ
		V _{R2} =10V			0.5	
		V _{R3} =50V			1	
		V _{R4} =75V			2	
Forward voltage(Note 2)	V _F	I _{F1} =0.1mA			0.25	V
		I _{F2} =10mA			0.45	
		I _{F3} =250mA			1	
Diode capacitance	Ст	V _R =0, f=1MHz		20		pF
		V _R =1V, f=1MHz		12		

Notes: 1. Part mounted on FR-4 board with recommended pad layout.

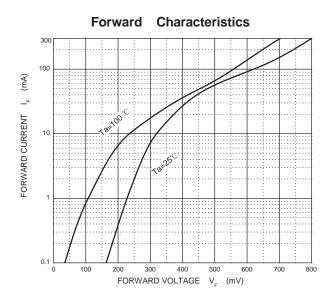
2. Short dura on pulse test used to minimize self-heating effect.

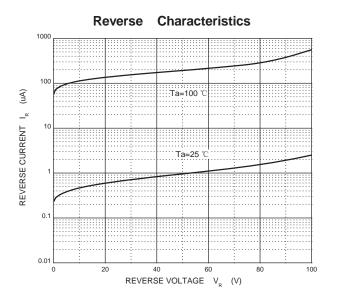


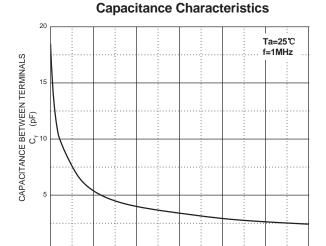


SURFACE MOUNT SCHOTTKY BARRIER DIODE

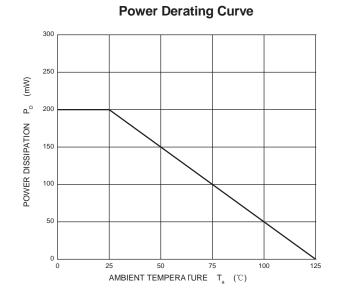
TYPICAL TRANSIENT CHARACTERISTICS







REVERSE VOLTAGE V_R (V)



http://www.hc-semi.com





SURFACE MOUNT SCHOTTKY BARRIER DIODE

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