

High Speed Switching Diode

Forward Current - 250 mA Reverse Voltage - 100 V

Description

- Power Dissipation of 250mW
- Fast Switching Device (TRR<4nS)
- High Stability and High Reliability
- Low Reverse Leakage

Mechanical Data

- •Case: SOD323 Package
- Case Material: "Green" Molding Compound UL Flammability Classification Rating 94V-0
- ●Terminals:Matte tin plated,solderable per MIL-STD-750 .method 2026
- Component in accordance to RoHS
- Halogen Free

Note: Products with logo Are made by HY Electronic (Cayman) Limited.

Ordering Information

• Package :SOD323

• Reel Size :7 (inches)

• Quantity Per Reel :3,000/Tape & Reel

• Quantity One Box:45,000/Tape & Reel

Package Outline

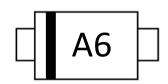


SOD323 Top View

Device Schematic & PIN Configuration



Product Type Marking Code



"A6" = Product Type Marking Code

Maximum Ratings (@TA = +25°C, unless otherwise specified.)

Absolute Ratings

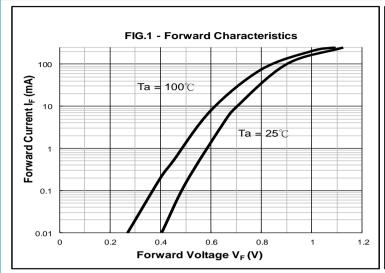
Parameter	Symbol	Value	Unit
Reverse Voltage	V _{RM}	100	V
Peak Repetitive Reverse Voltage	Vrrm	100	V
Peak Forward Surge Current @ tp=8.3ms; TA=25°C	IFSM	2	А
Average Rectified Current	lo	250	mA
Power Dissipation	Pb	250	mW
Thermal Resistance from Junction to Ambient	Rөja	500	° C/W
Junction Temperature	TJ	150	° C
Storage Temperature Range	Ts	-55 to +150	° C

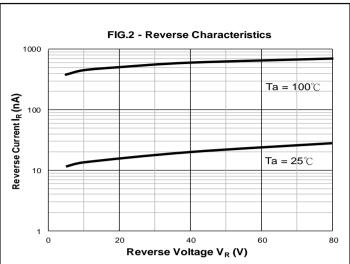
Electrical Characteristics

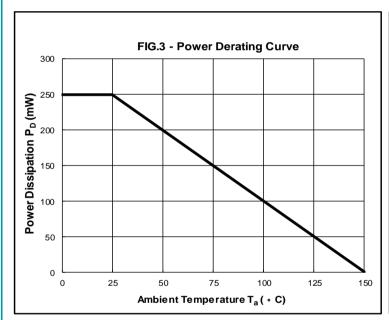
Electrical Characteristics						
Parameter	Test Conditions	Symbol	Min	Тур	Max	Unit
Reverse Voltage	In=100uA	V _{BR}	100	-	-	V
Reverse Current	V _R =25V	I R	-	-	30	nA
Reverse Current	VR=75V	=75V	-	-	1	uA
Forward Voltage	I _F =1mA	VF	-	-	0.71	V
	I _F =10mA		-	-	0.85	
	I _F =50mA		-	-	1.00	
	I _F =150mA		-	-	1.25	
Reverse Recovery Time	IF=IR=10mA IRR=0.1*IR,RL=100Ω	Trr	-	-	4	ns
Junction Capacitance	$V_R = 0V, F = 1MHz$	Ст	-	-	1.5	pF

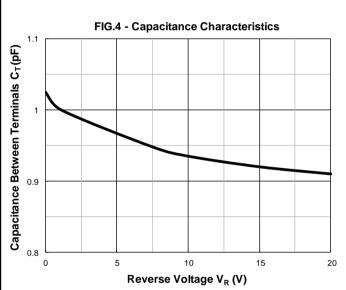


Rating and Characteristic Curves



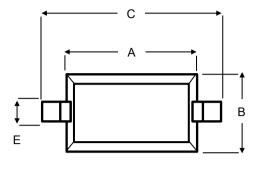


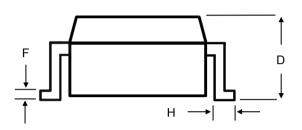


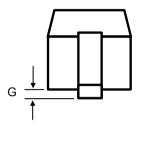




Package Outline Dimensions

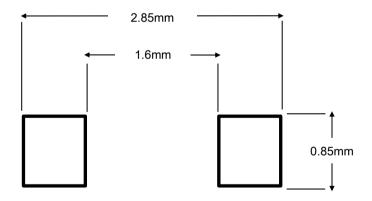






SOD323 Package					
Dim	Min	Max			
Α	1.6	1.8			
В	1.2	1.4			
С	2.5	2.7			
D	-	1.0			
E	0.25	0.35			
F	0.08	0.15			
G	-	0.1			
Н	0.25	0.4			
All Dimensions in mm					

Suggested Soldering Pad Layout



Note

- 1. The pad layout is for reference purposes only.
- 2.General tolerance ±0.05mm

Legal Disclaimer Notice

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