

200mW SOD-323 Fast Switching Diode

Features

- Fast Switching Device
- 200mW; Power Dissipation of 200mW
- High Stability and High Reliability
- Low reverse leakage

Mechanical Data

- SOD-323 Small Outline Plastic Package
- Polarity: Color band denotes cathode end
- Mounting Position: Any



Marking:5D SOD-323

Maximum Ratings&Thermal Characteristics (T _A =25°C unless otherwise noted)					
Parameters	Symbol	Value	Unit		
Reverse Voltage	V _R	100	V		
Power Dissipation	P _D	200	mW		
Operating junction temperature	TJ	150	°C		
Storage temperature range	Ts	-50-+150	°C		
Thermal Resistance from Junction to Ambient	R _{θJA}	635	/W		
Non-repetitive Peak Forward Current	lгм	500	mA		
Peak Forward Surge Cu rrent @tp=1us; TA=25	Ifsm	2.0	А		

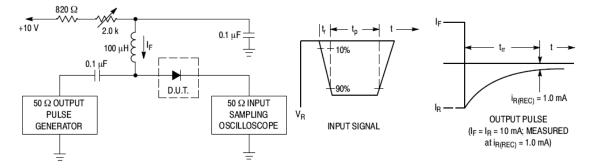
Valid provided that electrodes are kept at ambient temperature.

Electrical Characteristics (T _A =25°C unless otherwise noted)					
Parameter	Symbols	Test Condition	Limits		
			Min	Max	Unit
Reverse Voltage	V(BR)	IR=100uA	100		V
Reverse Leakage Current	IR	VR=20V		25	nA
		VR=75V		5	uA
Forward Voltage	VF	IF=10mA		1.00	V
Reverse Recovery Time	Trr	IF = IR = 10mA, Irr=0.1XIR RL=100\Omega		4	nS
Capacitance	Cj	VR=0V, f=1MHZ		4	pF



Ratings and Characteristics Curves

(TA = 25°C unless otherwise noted)



Notes: 1. A 2.0 kΩ variable resistor adjusted for a Forward Current (I_F) of 10 mA. 2. Input pulse is adjusted so I_{R(peak)} is equal to 10 mA. 3. t_p » t_{rr}

Figure 1. Recovery Time Equivalent Test Circuit

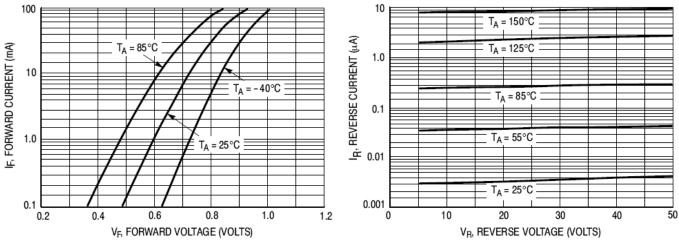
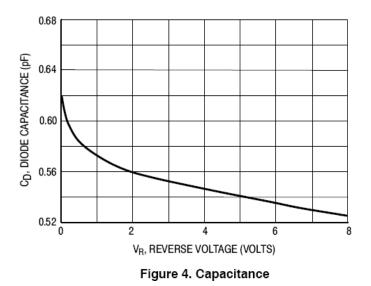


Figure 2. Forward Voltage

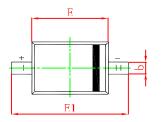
Figure 3. Leakage Current

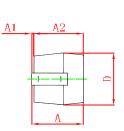


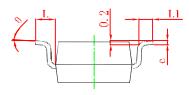


Package Outline Dimensions

millimeters







Symbol	Min	Max	
Α		1.000	
A1	0.000	0.100	
A2	0.800	0.900	
b	0.250	0.350	
C	0.080	0.150	
D	1.200	1.400	
E	1.600	1.800	
E1	2.500	2.700	
L	0.475REF		
L1	0.250	0.400	
θ	0°	8º	

Revision History

Document Version	Date of release	Description of changes
Rev.A	2016.06.29	First issue



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