

SOD-523 Plastic-Encapsulate Diode

Features

- Small surface mounting type
- High speed
- High reliability with high surge Current handing capability

Mechanical Data

- SOD-523 small outline plastic package
- Polarity: color band denotes cathode end
- Epoxy UL: 94V-0
- Mounting position: any



Marking: A SOD-523

Parameters	Symbol	Value	Unit
Non-Repetitive Peak Reverse Voltage	V _{RM}	90	V
DC Blocking Voltage	V _R	80	V
Power Dissipation	P _D	150	mW
Junction temperature	TJ	150	°C
Storage temperature range	Tstg	-55-+150	°C
Average Rectified Current	Ι _ο	100	mA
Non-repetitive Peak Forward Current	I _{FM}	225	mA
Non-repetitive Peak Forward SurgeCurrent@t= 8.3ms	I _{FSM}	2.0	Α
Thermal Resistance from Junction to Ambient	R _{θJA}	833	°C/W

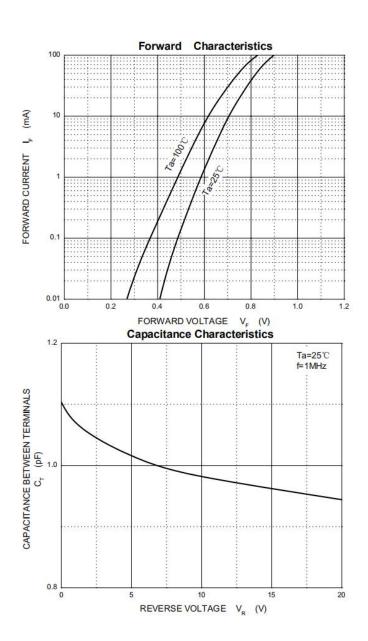
Valid provided that electrodes are kept at ambient temperature.

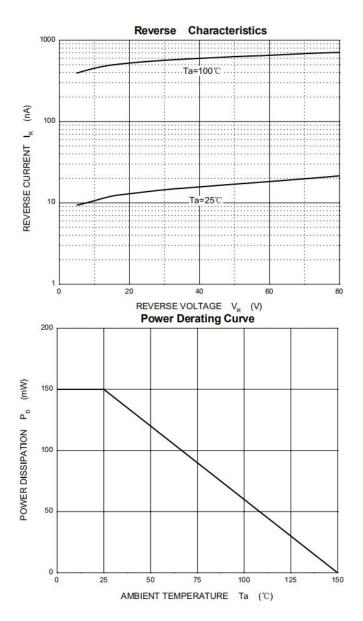
Electrical Characteristics (T _A =25°C unless otherwise noted)						
Parameter	Symbols	Test Condition	Limits			
			Min	Max	Unit	
Forward Voltage	VF	IF=100mA		1.20	V	
Reverse Leakage Current	lĸ	VR=80V		0.1	uA	
Reverse Recovery Time	Trr	IF= 10mA, VR=6V RL=100Ω		4	nS	
Capacitance	CJ	VR=0.5V, f=1MHZ		3	pF	



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Ratings and Characteristics Curves (TA = 25°C unless otherwise noted)

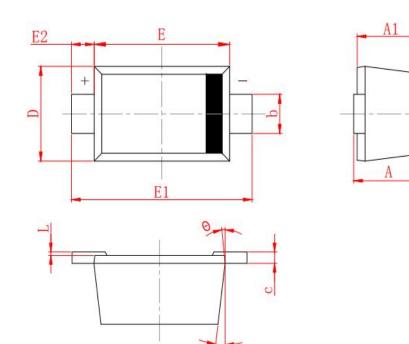






Package Outline Dimensions

millimeters



S YMBOL	MILLIMETER		
	MIN	MAX	
A	0. 530	0.730	
A1	0. 500 0. 70		
b	0.280	0, 380	
с	0.080	0. 150	
D	0.750	0.850	
E	1.100	1.300	
E1	1.500 1.3		
E2	0.200 REF		
L	0.010	0. 070	
0	7° REF		

Revision History

Document Version	Date of release	Description of changes
Rev.A	2020.07.21	First issue



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