

SOD-523 Plastic-Encapsulate Diode

Features

- Low Forward Voltage Drop
- Extremely Fast Switching Speed
- Surface Mount Package Ideally
- Suited For Automatic Insertion

Mechanical Data

- SOD-523 Small Outline Plastic Package
- Polarity: Color band denotes cathode end
- Epoxy UL: 94V-0
- Mounting Position: Any



Marking: JV SOD-523

Maximum Ratings & Thermal Characteristics (T _A =25°C unless otherwise noted)						
Parameters	Symbol	Value	Unit			
DC Blocking Voltage	V _R	21	V			
Peak Repetitive Reverse Voltage	V _{RM}	30	V			
Average Rectified Output Current	Ι _ο	100	mA			
Forward Continuous Current	I _F	200	mA			
Repetitive Peak Forward Current	I _{FRM}	300	mA			
Peak forward surge current 8.3 ms single half sine-wave	I _{FSM}	600	mA			
Power Dissipation	PD	150	mW			
Typical thermal resistance	$R_{ extsf{ heta}JA}$	667	°C/W			
Storage temperature range	T _{STG}	-55-+150	°C			
Junction temperature	TJ	125	°C			

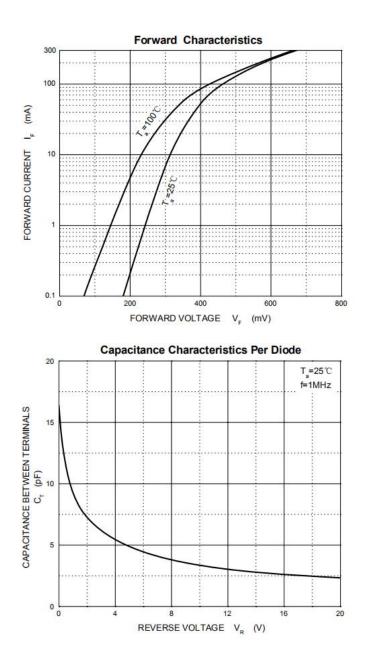
Electrical Characteristics (T _A =25°C unless otherwise noted)						
Parameter	Symbols	Test Condition	Limits			
			Min	Тур	Max	Unit
Reverse Breakdown Voltage	VR	IR=10uA	30			V
Maximum reverse current	IR	VR=25V			2.0	uA
Maximum forward voltage	VF	IF=0.1mA			0.24	V
		IF=1mA			0.32	
		IF=10mA			0.40	
		IF=30mA			0.50	
		IF=100mA			1.0	
Type junction capacitance	Cj	VR=1V, f=1MHZ			10	pF
Reverse Recover Time	۲۳	IF = IR = 10 mA, to 1mA , , RL=100 Ω			5	nS

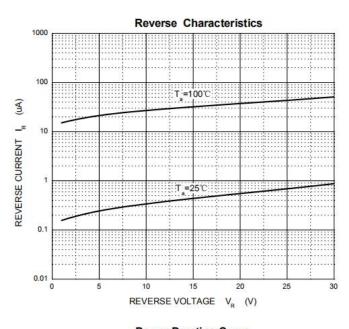


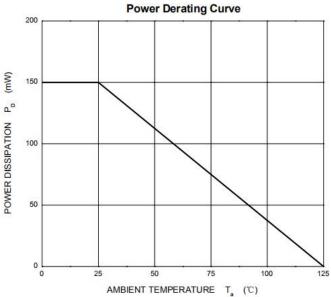
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Ratings and Characteristics Curves

 $(T_A = 25^{\circ}C \text{ unless otherwise noted})$



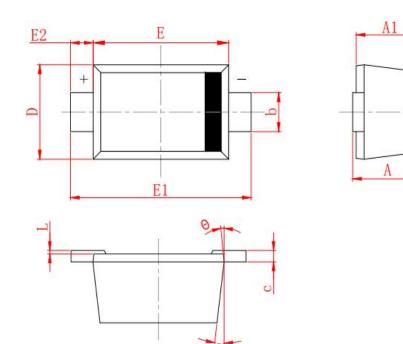






Package Outline Dimensions

millimeters



	MILLIMETER		
S YMBOL	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 1.30		
E1	1.500	1. 700	
E2	0.200 REF		
L	0.010	0.070	
θ	7° REF		

Revision History

Document Version	Date of release	Description of changes
Rev.A	2020.06.17	First issue



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