

Features

- Peak Forward Current: I_{FM}=350 mA
- Power Dissipation of 150mw

Package Marking and Ordering Information

Product ID	Pack	Marking	Qty(PCS)
HRB531SM-30T2R	SOD-523	S4	3000



SOD-523

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Maxmim Ratings (Ta=25 unless otherwise noted)

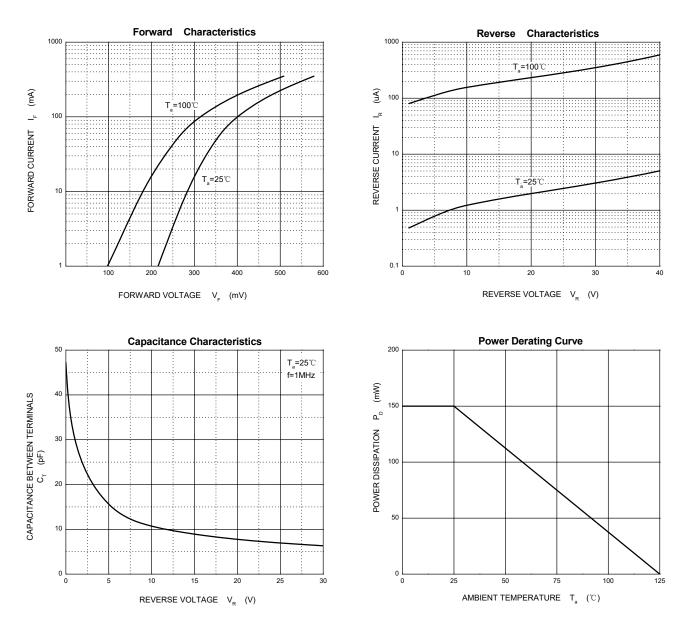
Symbol	Parameter	Value	Unit	
V _{RRM}	Peak Repetitive Reverse Voltage			
V _{RWM}	Working Peak Reverse Voltage	40 V		
V _R	DC Blocking Voltage			
V _{R(RMS)}	RMS Reverse Voltage	28	V	
I _{FM}	Forward Continuous Current	350	mA	
I _{FSM}	Non-Repetitive Peak Forward Surge Current@t=8.3ms	2	А	
PD	Power Dissipation	150	mW	
R _{OJA}	Thermal Resistance From Junction To Ambient	667	°C/W	
Tj	Junction Temperature	125	°C	
T _{stg}	Storage Temperature	-55~+150	°C	

Electrcal Charcteristics (Ta=25 unless otherwise specified)

Parameter	Symbol	Test conditions	Min	Тур	Max	Unit	
Reverse voltage	V _(BR)	k=100μA	40			V	
Reverse current	I _R	V _R =30V			5	μA	
		V _R =20V			2		
		V _R =10V			1		
Forward voltage	V _F	I _F =1mA		0.27		- V	
		I _F =5mA		0.32			
		I _F =20mA			0.37		
		I _F =200mA			0.6		
Total capacitance	C _{tot}	V _R =0V,f=1MHz		50		pF	
Reverse recovery time	t _{rr}	⊧= I _R =200mA, I _{rr} =0.1×I _R , R _L =100Ω		10		ns	

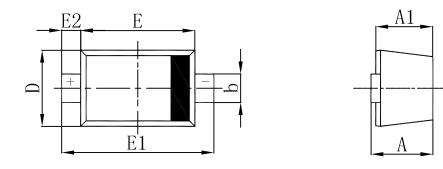


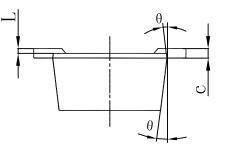
Typical Characteristics





SOD-523 Package Outline Dimensions





Symbol	Imensions In Millimeters		Imensions In Inches		
	Min	Max	Min	Max	
A	0.510	0.770	0.020	0.031	
A1	0.500	0.700	0.020	0.028	
b	0.250	0.350	0.010	0.014	
С	0.080	0.150	0.003	0.006	
D	0.750	0.850	0.030	0.033	
E	1.100	1.300	0.043	0.051	
E1	1.500	1.700	0.059	0.067	
E2	0.200 REF		0.008 REF		
L	0.010	0.070	0.001	0.003	
θ	7° REF		7° REF		



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