

FEATURES

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

Package Marking and Ordering Information



Product ID	Pack	Marking	Qty(PCS)	
B5819WT	SOD-523		3000	



MAXIMUM 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
Roja	Thermal Resistance From Junction To Ambient	300	°C/W
Tj	Junction Temperature	125	°C
T _{stg}	Storage Temperature	-55~+150	°C

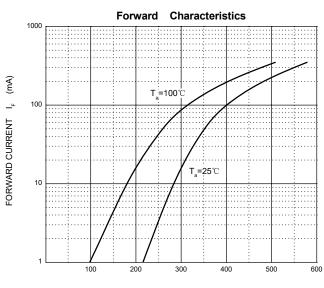
ELECTRICAL CHARACTERISTICS (Ta=25 unless otherwise specified)

Parameter	Symbol	Test conditions	Min	Тур	Max	Unit	
Reverse voltage	V _(BR)	Ι _R =100μΑ	40			V	
Reverse current	I _R	V _R =30V			5		
		V _R =20V			2	μA	
		V _R =10V			1		
Forward voltage	V _F	I _F =1mA		0.27			
		I _F =5mA		0.32		v	
		I _F =20mA			0.37		
		I _F =200mA			0.6	1	
Total capacitance	C _{tot}	V _R =0V,f=1MHz		50		pF	
Reverse recovery time	t _{rr}	$I_{F}=I_{R}=200\text{mA}, I_{rr}=0.1 \times I_{R}, R_{L}=100\Omega$		10		ns	

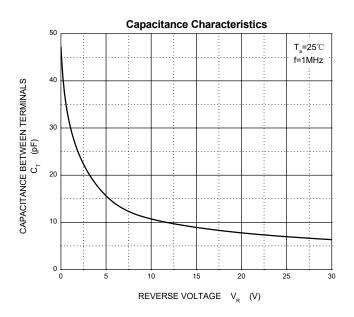


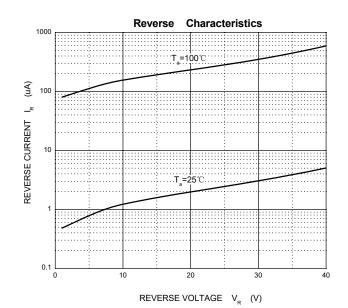
B5819WT SCHOTTKY BARRIER DIODE

Typical Characteristics

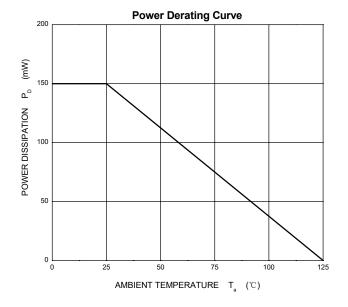






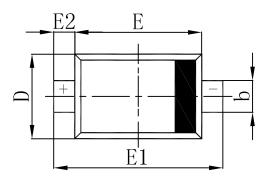


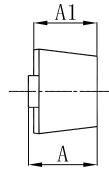


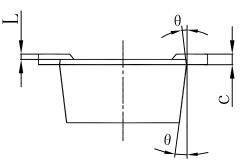




SOD-523 Package Outline Dimensions







Sym ol	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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