

Features

Extremely Fast Switching Speed Low Forward Voltage Pb-Free Package is Available



Package Marking and Ordering Information

Product ID	Pack	Marking	Qty(PCS)
HBAT54HT1G	SOD-323	L9	3000



Maximum Ratings (Ta=25°C unless otherwise noted)

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Parameter	Symbol	Rating	Unit	
Reverse Voltage	VRM	30	V	
Forward Current	lF	200		
Repetitive Peak Forward Current	IFRM	300	mA	
Non-Repetitive Peak Forward Current (t < 1s)	IFSM	600		
Power Dissipation	Pd	200	mW	
-Derate above 25°C		1.57	mW/°C	
Thermal Resistance Junction to Ambient	R ⊕ JA	635	°C/W	
Junction Temperature	TJ	150	°C	
Storage Temperature range	Tstg	-55 to 150		

Electrical Characteristics (T_a=25°C unless otherwise specified)

Parameter	Symbol	Test Conditions	Min	Тур	Max	Unit
Reverse breakdown voltage	VR	IR= 10 uA	30			
		IF= 0.1 mA			0.24	
		IF= 1 mA			0.32	V
Forward voltage	VF	IF= 10 mA			0.4	v
		IF= 30 mA			0.5	
		IF= 100 mA			0.8	
Reverse voltage leakage current	lr	V _R = 25 V			2	uA
Junction capacitance	Cj	V _R = 1 V, f= 1 MHz			10	pF
Reverse recovery time	trr	IF=IR=10mA,IR(REC) = 1mA			5	ns

 $T_A = 125$ °C

 $T_A = 85^{\circ}C$

 $T_A = 25^{\circ}C$

25



Typical Characteristics

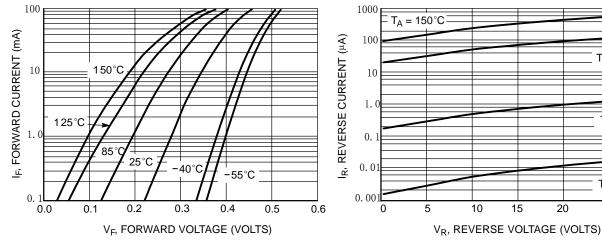


Figure 2. Forward Voltage

Figure 3. Leakage Current

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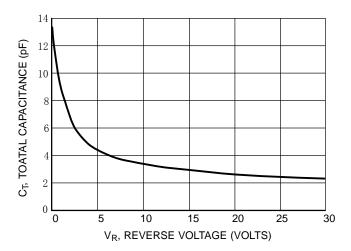
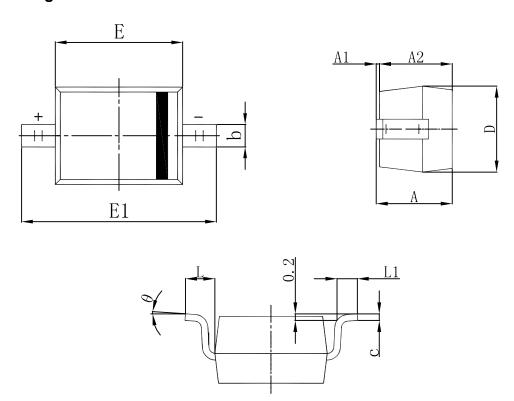


Figure 4. Total Capacitance



SOD-323 Package Outline Dimensions



Symbol	Dimensions In Millimeters		Dimensions In Inches		
	Min	Max	Min	Max	
Α		1.100		0.043	
A1	0.000	0.100	0.000	0.004	
A2	0.800	1.000	0.031	0.039	
b	0.250	0.350	0.010	0.014	
С	0.080	0.150	0.003	0.006	
D	1.200	1.400	0.047	0.055	
E	1.600	1.800	0.063	0.071	
E1	2.500	2.750	0.098	0.108	
L	0.475 REF		0.019 REF		
L1	0.250	0.400	0.010	0.016	
θ	0°	8°	0°	8°	



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