

Features

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



Package Marking and Ordering Information

Product ID Pack		Marking	Qty(PCS)	
HBAT54XV2T1G SOD-523		JV	3000	



Maxmim Ratings (Ta=25 unless otherwise noted)

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Parameter	Symbol	Limits	Unit	Unit	
DC Reverse voltage	V_R	30	V		
Continuous forward current	I _F	200	mA		
Peak forward surge current	I _{FSM}	600	mA		
Total power dissipation	P _{tot}	200	mW		
Total resistance junction to ambient	$R_{\theta JA}$	635	°C/W		
Junction temperature	Tj	150	$^{\circ}$		
Storage temperature	T _{stg}	-55-150	$^{\circ}$		

Electrcal Charcteristics (Ta=25 unless otherwise specified)

Parameter	Symbol	Min.	Тур.	Max.	Unit	Conditions
Reverse breakdown voltage	V _{(BR)R}	30			V	I _R =100μA
			0.22	0.24		I _F =0.1mA
			0.41	0.5		I _F =30mA
Forward voltage	V_{F}		0.52	0.8	V	I _F =100mA
			0.29	0.32		I _F =1.0mA
			0.35	0.40		I _F =10mA
Reverse current	I _R		0.5	2.0	μΑ	V _R =25V
Diode capacitance	C _d		7.6	10	pF	V _R =1V,f=1MHz
Reverse recovery time	t _{rr}			5	ns	I _F =I _R =10mA



Typical Characteristics

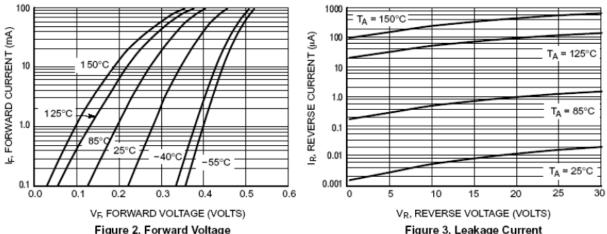




Figure 3. Leakage Current

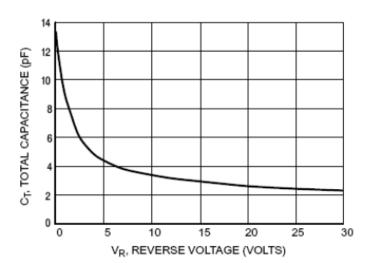
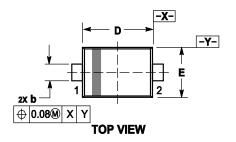
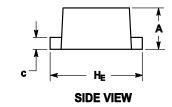


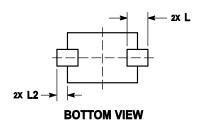
Figure 4. Total Capacitance



OUTLINE AND DIMENSIONS







Notes:

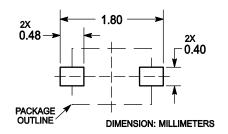
- 1. DIMENSIONING AND TOLERANCING PER ANSI Y14.5M, 1982.
- 2. CONTROLLING DIMENSION: MILLIMETERS.
- 3. MAXIMUM LEAD THICKNESS INCLUDES LEAD

THICKNESS OF BASE MATERIAL.

4. DIMENSIONS D AND E DO NOT INCLUDE MOLD FLASH, PROTRUSIONS OR GATE BURRS.

	MILLIMETERS			INCHES		
DIM	MIN	NOM	MAX	MIN	NOM	MAX
Α	0.50	0.60	0.70	0.020	0.024	0.028
b	0.25	0.30	0.35	0.010	0.012	0.014
С	0.07	0.14	0.20	0.003	0.006	0.008
D	1.10	1.20	1.30	0.043	0.047	0.051
Е	0.70	0.80	0.90	0.028	0.031	0.035
H _E	1.50	1.60	1.70	0.059	0.063	0.067
L	0.30 REF			0.012 REF		
L ₂	0.15	0.20	0.25	0.006	0.008	0.010

SOLDERING FOOTPRINT





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