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HSB124S

Silicon Epitaxial Planar Diode for High Speed Switching



ADE-208-488A(Z)

Rev. 1 Dec. 1999

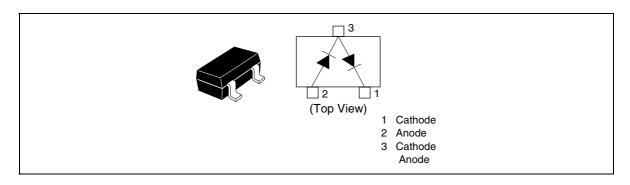
Features

- Low reverse current.($I_R = 0.01 \mu Amax$)
- CMPAK package is suitable for high density surface mounting and high speed assembly.

Ordering Information

Type No.	Laser Mark	Package Code
HSB124S	A1	CMPAK

Pin Arrangement



HSB124S

Absolute Maximum Ratings

 $(Ta = 25^{\circ}C)$

Item	Symbol	Value	Unit	
Peak reverse voltage	V _{RM}	85	V	
Reverse voltage	V _R	80	V	
Peak forward current	*1 FM	300	mA	
Non-Repetitive peak forward surge current	I _{FSM} * ²	4	Α	
Average rectified current	l _o * ¹	100	mA	
Junction temperature	Tj	125	°C	
Storage temperature	Tstg	-55 to +125	°C	

Note: 1. Two device total.

Note: 2. Value at duration of 1µsec, two device total.

Electrical Characteristics*¹

 $(Ta = 25^{\circ}C)$

Item	Symbol	Min	Тур	Max	Unit	Test Condition
Forward voltage	V _F	_	_	1.2	٧	I _F = 100 mA
Reverse current	I _R	_	_	0.01	μΑ	V _R = 80V
Capacitance	С	_	_	4.0	pF	V _R = 0V, f = 1 MHz
Reverse recovery time	t _{rr}	_	_	100	ns	$I_{F} = 10 \text{ mA}, V_{R} = 6V, R_{L} = 50\Omega$

Note: 1. Per one device.

Main Characteristic

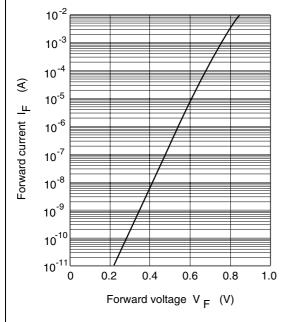
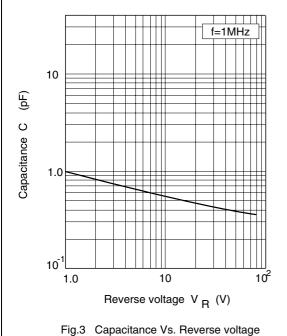


Fig.1 Forward current Vs. Forward voltage



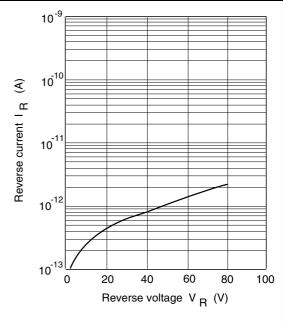
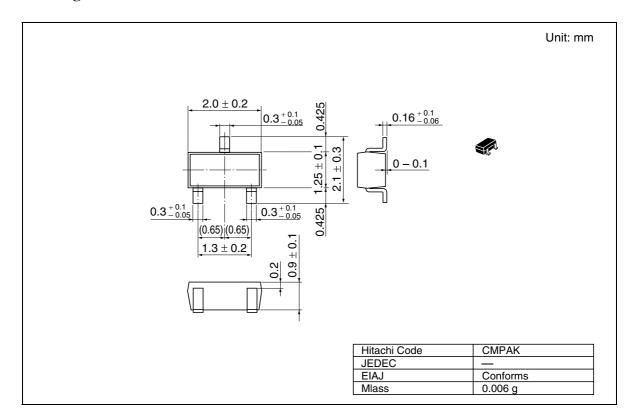


Fig.2 Reverse current Vs. Reverse voltage

HSB124S

Package Dimensions



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