

HSB123

Silicon Epitaxial Planar Diode for High Speed Switching

REJ03G0546-0300 Rev.3.00 Jan 07, 2009

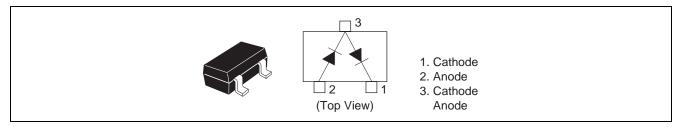
Features

- Low capacitance, proof against high voltage.
- Fast recovery time. (trr = 3.0ns max)
- CMPAK package is suitable for high density surface mounting and high speed assembly.

Ordering Information

Part No	Laser Mark	Package Name	Package Code	Taping Abbreviation (Quantity)
HSB123TL	A9	CMPAK	PTSP0003ZB-A	TL (3,000 pcs / reel)
HSB123TR	A9	CMPAK	PTSP0003ZB-A	TR (3,000 pcs / reel)

Pin Arrangement



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	I _{FM} * ¹	300	mA
Non-Repetitive peak forward surge current	I _{FSM} * ²	4	А
Average rectified current	I ₀ * ¹	100	mA
Junction temperature	Тј	150	°C
Storage temperature	Tstg	-55 to +150	°C

Notes: 1. Two device total.

2. Value at duration of 1 $\mu s,$ two device total.

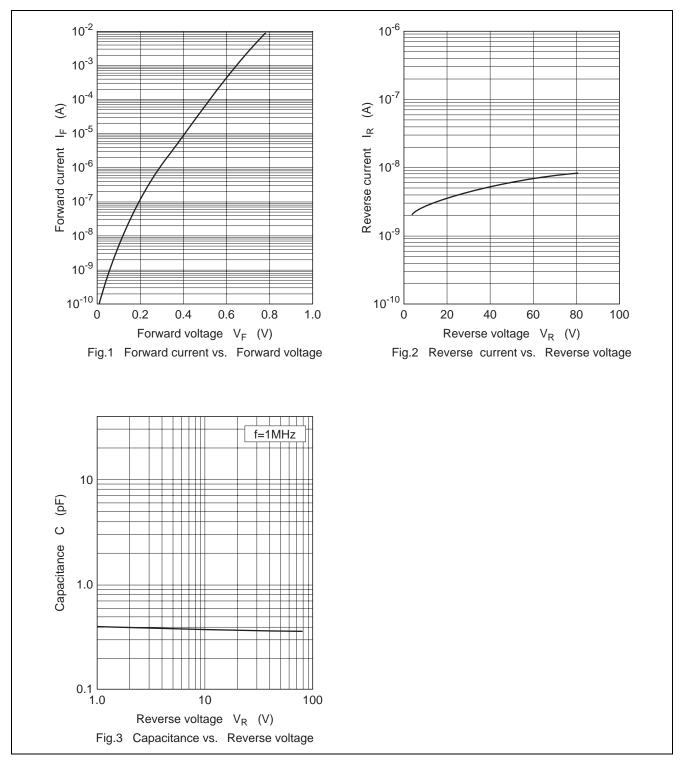
Electrical Characteristics *1

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

Item	Symbol	Min	Тур	Max	Unit	Test Condition
Forward voltage	V _{F1}	—	—	1.0	V	I _F = 10 mA
	V _{F2}	—	—	1.0	V	I _F = 50 mA
	V _{F3}	_		1.2	V	I _F = 100 mA
Reverse current	I _R	_		0.1	μΑ	V _R = 80 V
Capacitance	С			2.0	рF	$V_R = 0 V, f = 1 MHz$
Reverse recovery time	t _{rr}		_	3.0	ns	$I_F=10~mA,~V_R=6~V,~R_L=50~\Omega$

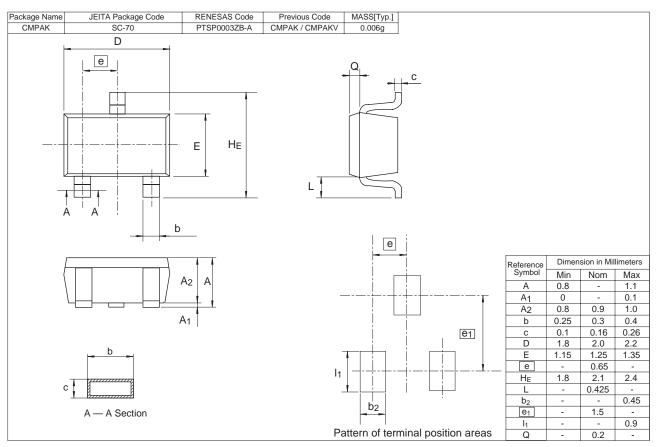
Note: 1. Per one device.

Main Characteristics



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Package Dimensions



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 Pines
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