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HSB2838

Silicon Epitaxial Planar Diode for High Speed Switching



ADE-208-486A (Z)

Rev.1 Mar. 2002

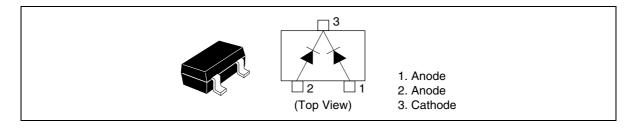
Features

- Fast recovery time.
- CMPAK package is suitable for high density surface mounting and high speed assembly.

Ordering Information

Type No.	Laser Mark	Package Code
HSB2838	A6	CMPAK

Pin Arrangement



HSB2838

Absolute Maximum Ratings

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

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

Notes: 1. Two device total.

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

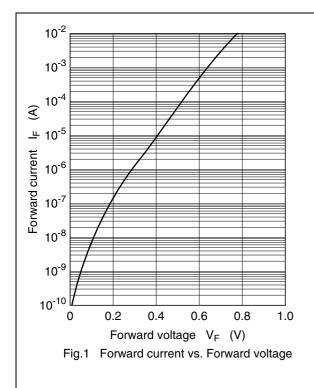
Electrical Characteristics *

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

Item	Symbol	Min	Тур	Max	Unit	Test Condition
Forward voltage	$V_{_{\rm F1}}$	_	_	1.0	V	I _F = 10 mA
	V _{F2}	_	_	1.0		I _F = 50 mA
	V _{F3}	_	_	1.2		I _F = 100 mA
Reverse current	I _R	_	_	0.1	μΑ	V _R = 80 V
Capacitance	С	_	_	2.0	pF	$V_R = 0 \text{ V}, f = 1 \text{ MHz}$
Reverse recovery time	t _{rr}	_	_	3.0	ns	$I_{F} = 10 \text{ mA}, V_{R} = 6 \text{ V}, R_{L} = 50 \Omega$

Note: Per one device.

Main Characteristic



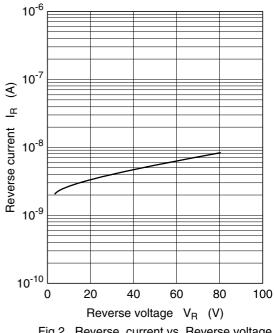
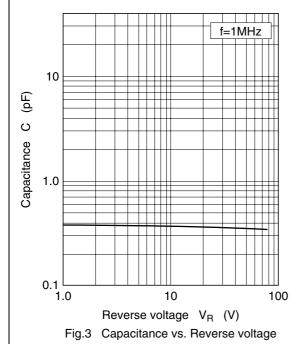
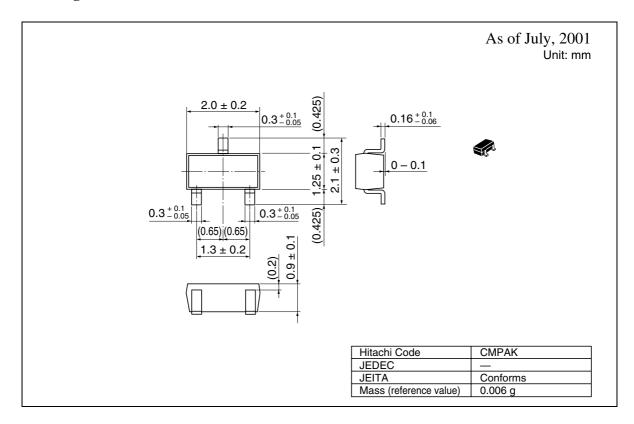


Fig.2 Reverse current vs. Reverse voltage



HSB2838

Package Dimensions



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