

HSB2838

Silicon Epitaxial Planar Diode for High Speed Switching

REJ03G0549-0300 Rev.3.00 Jan 07, 2009

Features

- 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)
HSB2838TL	A6	CMPAK	PTSP0003ZB-A	TL (3,000 pcs / reel)
HSB2838TR	A6	CMPAK	PTSP0003ZB-A	TR (3,000 pcs / reel)

Pin Arrangement

Pin Arrangement	
	3 1. Anode 2 1 (Top View) 3. Cathode



Absolute Maximum Ratings

			(Ta = 25°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	۵°C

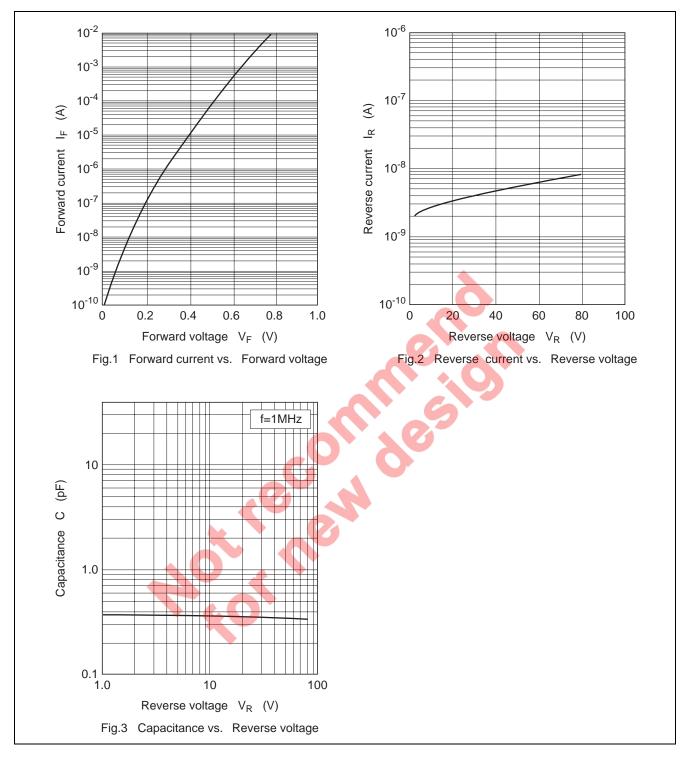
Notes: 1. Two device total.

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

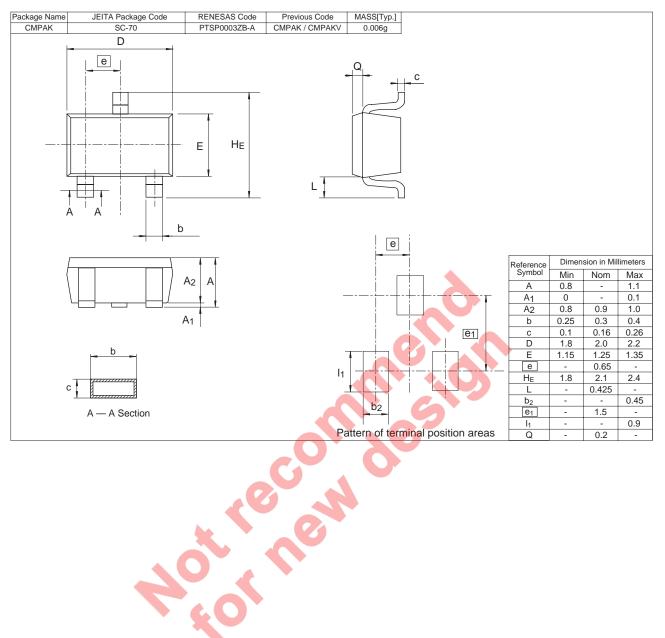
Electrical Characteristics *1

Item			_			$(Ta = 25^{\circ}C)$
	Symbol	Min	Тур	Max	Unit	Test Condition
Forward voltage	V _{F1}	—	_	1.0	V	I _F = 10 mA
	V _{F2}	—	_	1.0	V	$I_F = 50 \text{ mA}$
	V _{F3}	—		1.2	V	I _F = 100 mA
Reverse current	I _R	—	—	0.1	μA	V _R = 80 V
Capacitance	С	_	_	2.0	pF	$V_R = 0 V$, f = 1 MHz
Reverse recovery time	t _{rr}		-	3.0	ns	$I_F = 10 \text{ mA}, V_R = 6 \text{ V}, R_L = 50 \Omega$
		10	C			

Main Characteristics



Package Dimensions



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April 1st, 2010 Renesas Electronics Corporation

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