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HSB83

Silicon Epitaxial Planar Diode for High Voltage Switching



ADE-208-489A (Z)

Rev. 1 Nov. 1999

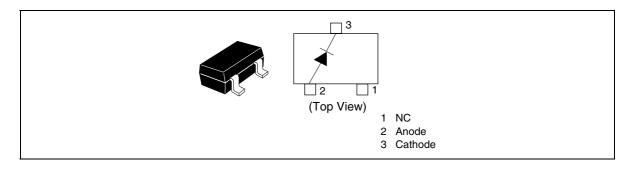
Features

- High reverse voltage. (VR=250V)
- CMPAK package is suitable for high density surface mounting and high speed assembly.

Ordering Information

Type No.	Laser Mark	Package Code
HSB83	F7	CMPAK

Pin Arrangement



HSB83

Absolute Maximum Ratings

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

Item	Symbol	Value	Unit	
Peak reverse voltage	V _{RM}	300	V	
Reverse voltage	V _R	250	V	
Peak forward current	I _{FM}	300	mA	
Non-Repetitive peak forward surge current	I _{FSM} * ¹	2	Α	
Average rectified current	Io	100	mA	
Junction temperature	Tj	125	°C	
Storage temperature	Tstg	-55 to +125	°C	

Note: 1. Value at duration of 10msec.

Electrical Characteristics

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

Item	Symbol	Min	Тур	Max	Unit	Test Condition
Forward voltage	V _F	_	_	1.2	V	I _F = 100 mA
Reverse current	I _{R1}	_	_	0.2	μΑ	V _R = 250V
	I _{R2}	_	_	100	_	$V_R = 300V$
Capacitance	С	_	_	3.0	pF	V _R = 0V, f = 1 MHz
Reverse recovery time	t _{rr}	_	_	100	ns	$I_{F} = I_{R} = 30 \text{ mA}, I_{rr} = 3\text{mA}, R_{L} = 100\Omega$

Main Characteristic

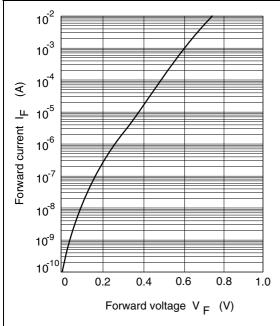
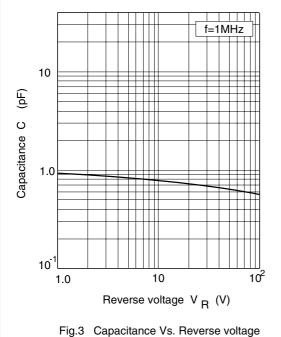


Fig.1 Forward current Vs. Forward voltage



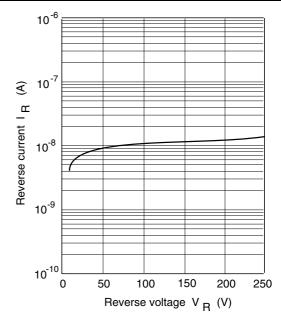
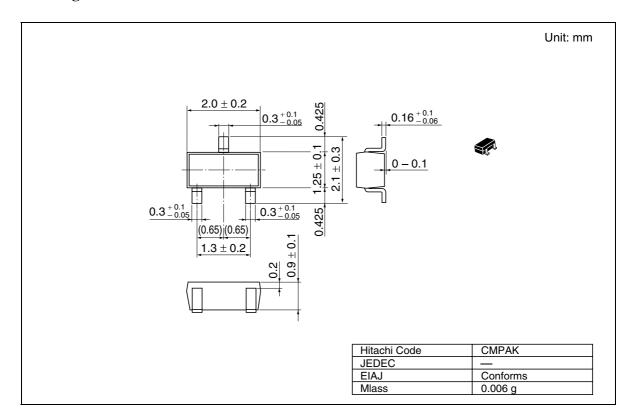


Fig.2 Reverse current Vs. Reverse voltage

HSB83

Package Dimensions



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