

# HRB0103A

Silicon Schottky Barrier Diode for Low Voltage High Speed Switching, Rectifying

REJ03G0616-0200  
(Previous: ADE-208-490A)  
Rev.2.00  
May 10, 2005

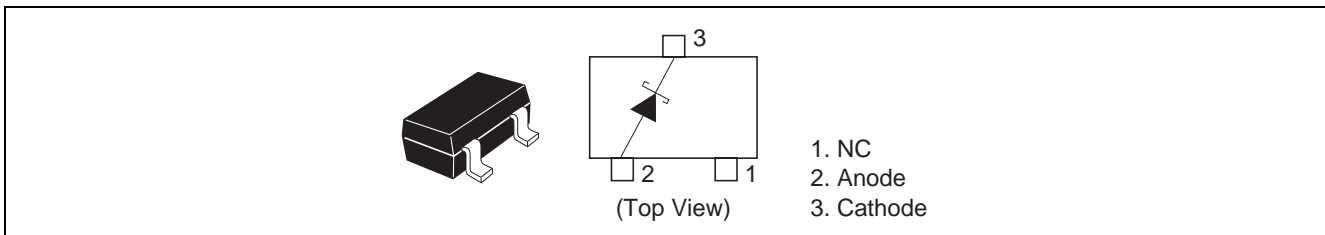
## Features

- Low forward voltage drop and suitable for high efficiency forward current.
- CML package is suitable for high density surface mounting and high speed assembly.

## Ordering Information

Type No.	Laser Mark	Package Name	Package Code (Previous Code)
HRB0103A	E1	CML	PTSP0003ZB-A (CML)

## Pin Arrangement



## Absolute Maximum Ratings

(Ta = 25°C)

Item	Symbol	Value	Unit
Repetitive peak reverse voltage	$V_{RRM}$	30	V
Average rectified current	$I_O^{*1}$	100	mA
Non-Repetitive peak forward surge current	$I_{FSM}^{*2}$	3	A
Junction temperature	$T_j$	125	°C
Storage temperature	$T_{stg}$	-55 to +125	°C

Notes: 1. See Fig.5.

2. 10 ms sine wave 1 pulse.

## Electrical Characteristics

(Ta = 25°C)

Item	Symbol	Min	Typ	Max	Unit	Test Condition
Forward voltage	$V_F$	—	—	0.44	V	$I_F = 100 \text{ mA}$
Reverse current	$I_R$	—	—	50	$\mu\text{A}$	$V_R = 30 \text{ V}$

Main Characteristic

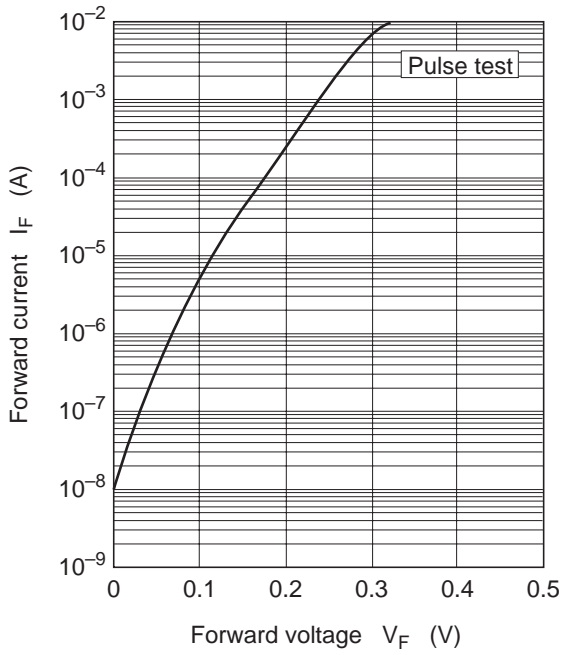


Fig.1 Forward current vs. Forward voltage

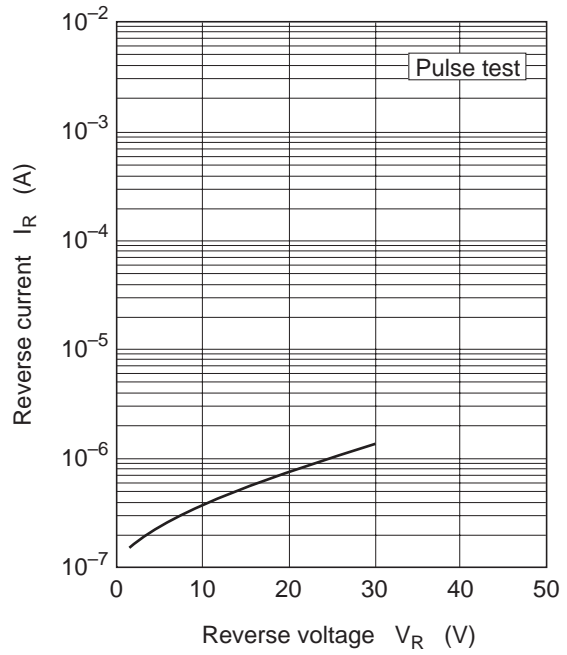


Fig.2 Reverse current vs. Reverse voltage

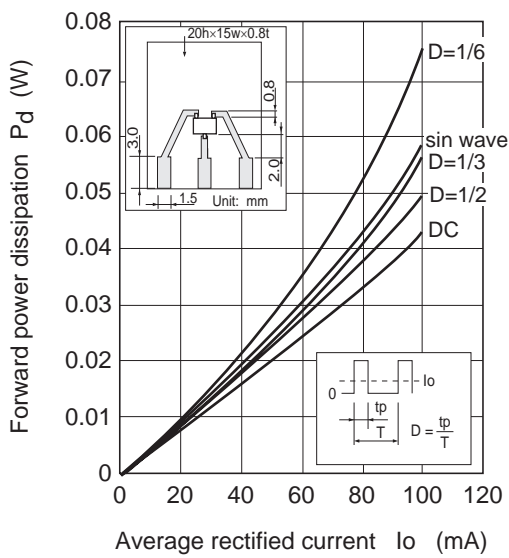


Fig3. Forward power dissipation vs. Average rectified current

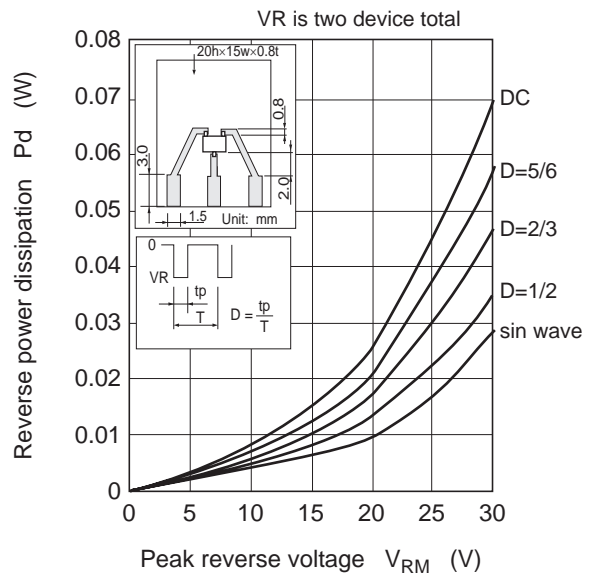


Fig4. Forward power dissipation vs. Peak reverse voltage

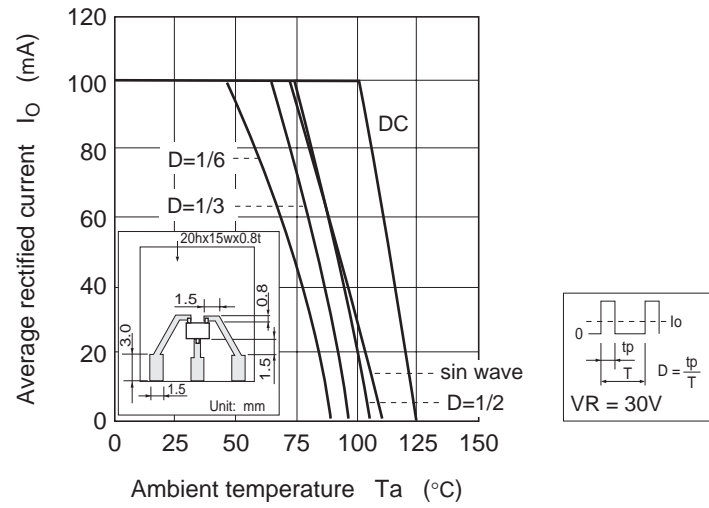
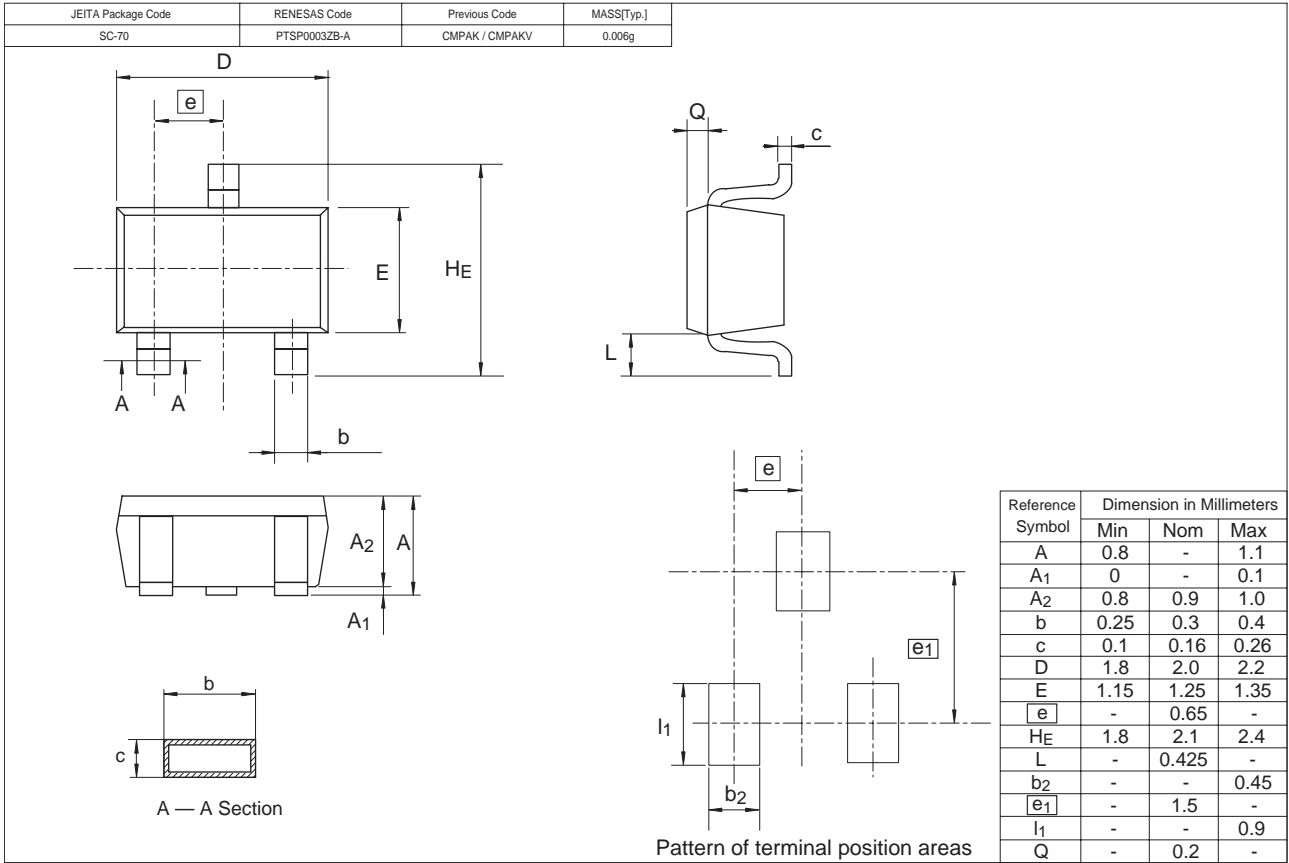


Fig.5 Average rectified current vs. Ambient temperature

### Package Dimensions



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