RENESAS

HRB0502A

Silicon Schottky Barrier Diode for Rectifying

REJ03G0047-0200Z Rev.2.00 Sep.01.2003

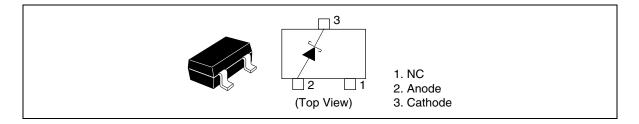
Features

- Low forward voltage drop and suitable for high efficiency rectifying.
- CMPAK Package is suitable for high density surface mounting and high speed assembly.

Ordering Information

Type No.	Laser Mark	Package Code
HRB0502A	E3	СМРАК

Pin Arrangement





Absolute Maximum Ratings

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

Item	Symbol	Value	Unit	
Repetitive peak reverse voltage	V _{RRM}	20	V	
Forward current	l _F * ¹	500	mA	
Non-Repetitive peak forward surge current	I _{FSM} * ²	5	A	
Junction temperature	Tj	125	°C	
Storage temperature	Tstg	-55 to +125	°C	

Notes: 1. See from Fig.4 to Fig.6

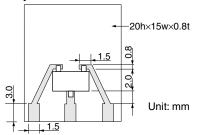
2. 10 ms sine wave 1 pulse

Electrical Characteristics

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

Item	Symbol	Min	Тур	Max	Unit	Test Condition
Forward voltage	V _F	_	_	0.4	V	I _F = 500 mA
Reverse current	I _R	_	_	200	μA	V _R = 20 V
Capacitance	С	_	120	_	pF	$V_{R} = 0 V, f = 1 MHz$
Thermal resistance	Rth(j-a)		450		°C/W	Polyimide board *1

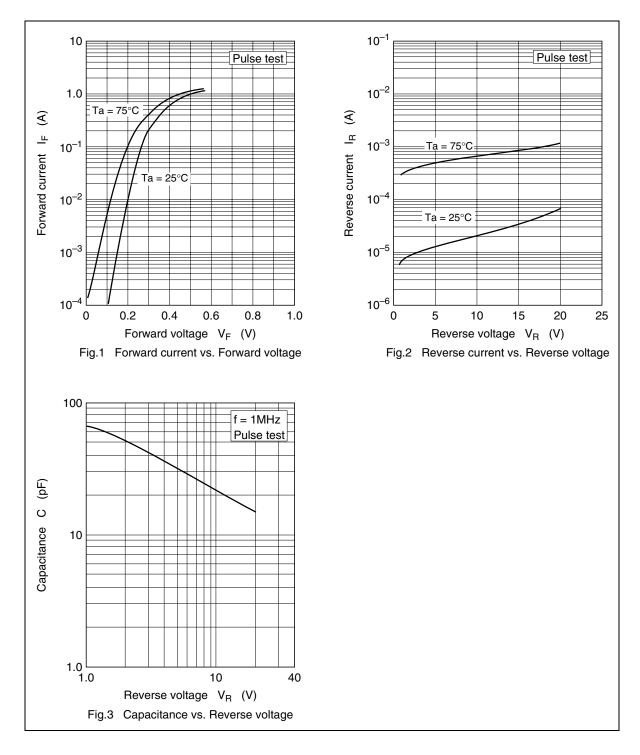
Note: Polyimide board





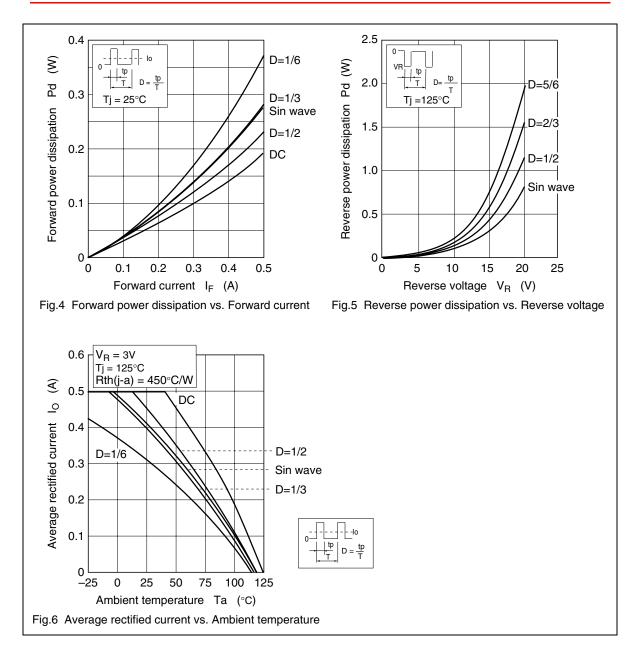
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Main Characteristic





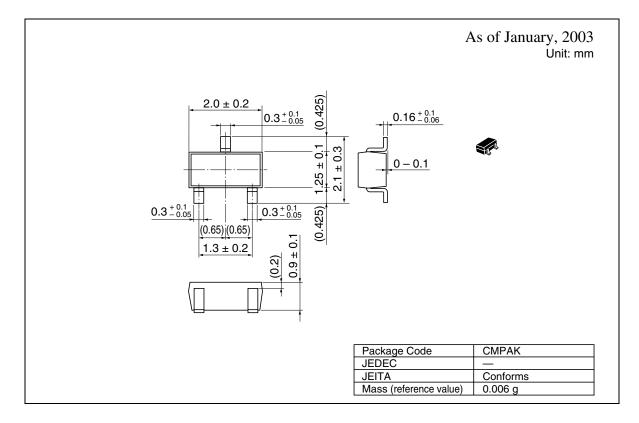
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Package Dimensions





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