

HRW0503A

Silicon Schottky Barrier Diode for Rectifying

REJ03G0158-0400Z
(Previous: ADE-208-016C)
Rev.4.00
Jan.06.2004

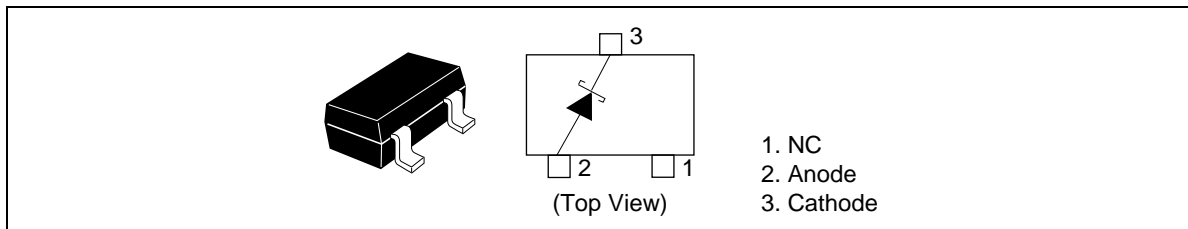
Features

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

Ordering Information

Type No.	Laser Mark	Package Code
HRW0503A	S6	MPAK

Pin Arrangement



Absolute Maximum Ratings

(Ta = 25°C)

Item	Symbol	Value	Unit
Repetitive peak reverse voltage	V_{RRM}^{*1}	30	V
Average rectified current	I_O^{*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

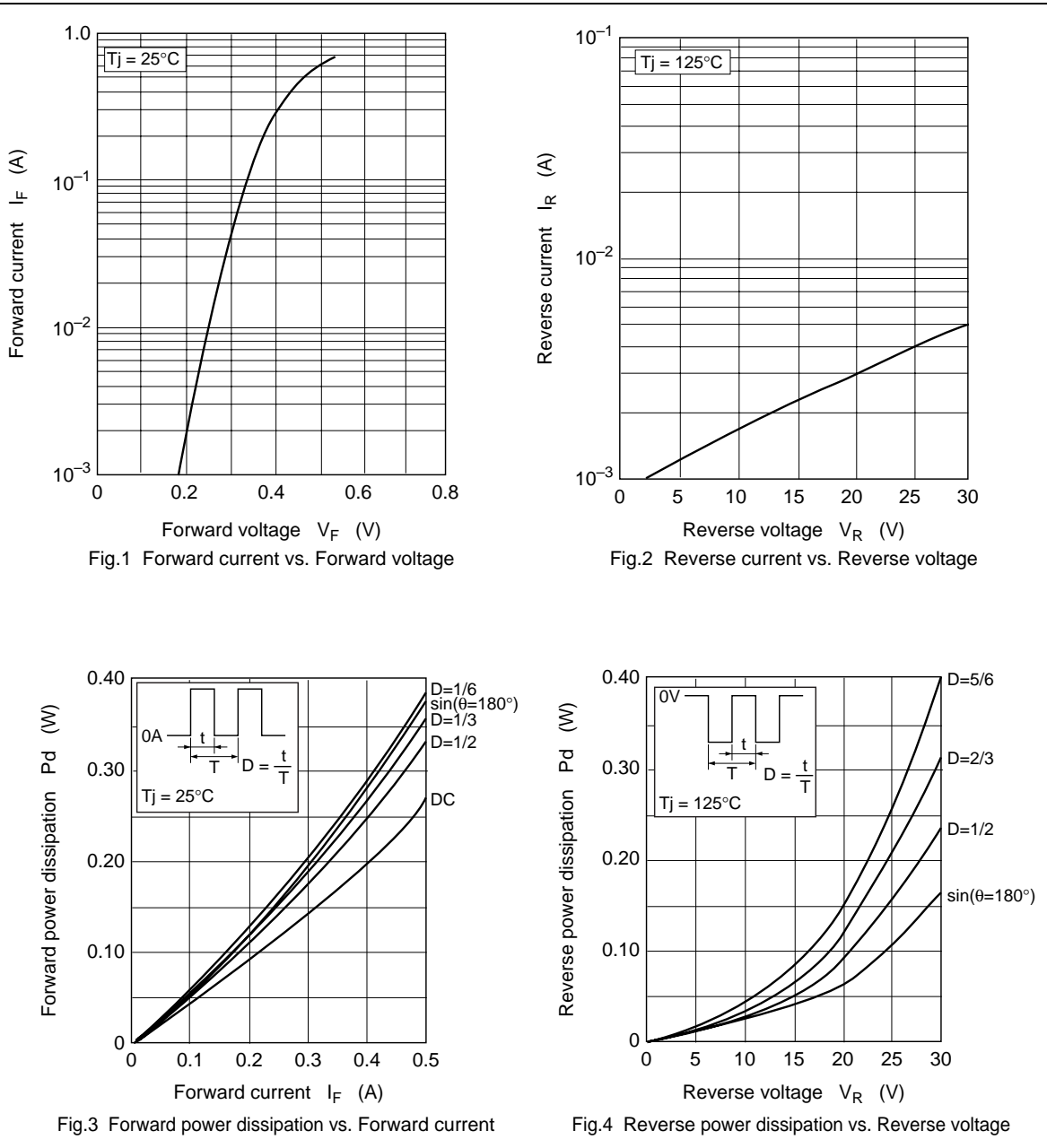
Notes: 1. See from Fig.1 to Fig.5, with polyimide board
2. 50 Hz sine wave 1 pulse

Electrical Characteristics

(Ta = 25°C)

Item	Symbol	Min	Typ	Max	Unit	Test Condition
Forward voltage	V_F	—	—	0.55	V	$I_F = 500 \text{ mA}$
Reverse current	I_R	—	—	50	μA	$V_R = 30 \text{ V}$
Capacitance	C	—	65	—	pF	$V_R = 0 \text{ V}, f = 1 \text{ MHz}$

Main Characteristic



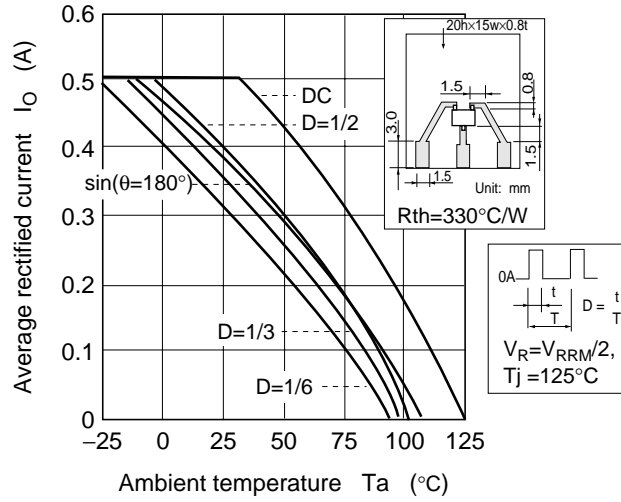


Fig.5 Average rectified current vs. Ambient temperature

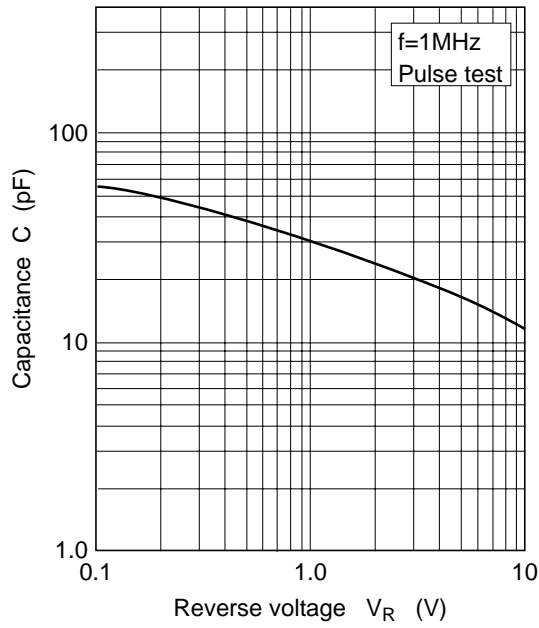
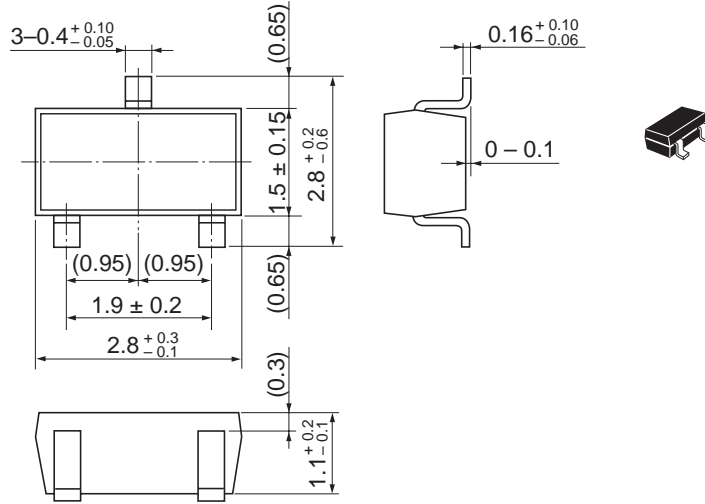


Fig.6 Capacitance vs. Reverse voltage

Package Dimensions

As of January, 2003
Unit: mm



Package Code	MPAK
JEDEC	—
JEITA	Conforms
Mass (reference value)	0.011 g

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