

RKR0202AQE

Silicon Schottky Barrier Diode for Rectifying

REJ03G1699-0100 Rev.1.00 Jun 13, 2008

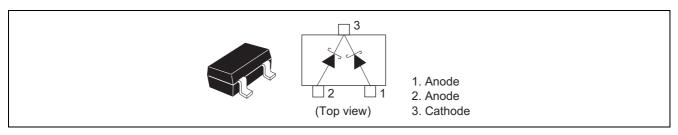
Features

- 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

Part No.	Laser Mark	Package Name	Package Code
RKR0202AQE	E9	CMPAK	PTSP0003ZB-A

Pin Arrangement



Absolute Maximum Ratings

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

Item	Symbol	Value	Unit
Repetitive peak reverse voltage	V_{RMM}	20	V
Average rectified current	I ₀ *1 *2	200	mA
Non-Repetitive peak forward surge current	I _{FSM} * ³	2	А
Junction temperature	Tj	125	°C
Storage temperature	Tstg	-55 to +125	°C

Notes: 1. Two device total

2. See from Fig.4 to Fig.6

3. 10ms sine wave 1 pulse

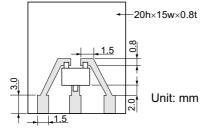
Electrical Characteristics *1

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

Item	Symbol	Min	Тур	Max	Unit	Test Condition
Forward voltage	V _{F1}			0.30	V	I _F = 10 mA
	V_{F2}			0.40	V	I _F = 100 mA
Reverse current	I _R	_	_	50	μΑ	V _R = 20 V
Thermal resistance	Rth(j-a)		550		°C/W	Polyimide board *2

Notes: 1. Per one device

2. Polyimide board



Main Characteristic

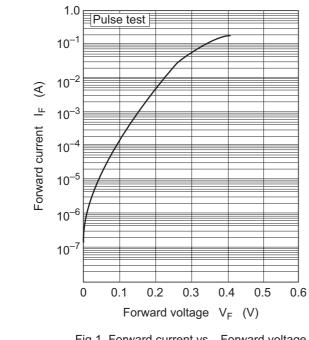


Fig.1 Forward current vs. Forward voltage

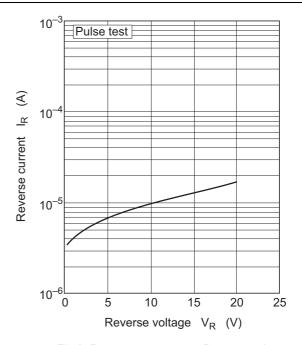
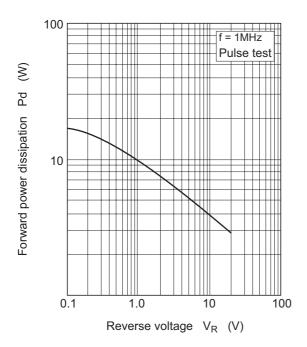


Fig.2 Reverse current vs. Reverse voltage



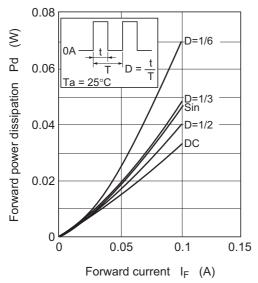


Fig4. Forward power dissipation vs. Forward current

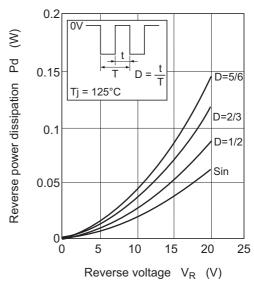


Fig5. Reverse power dissipation vs. Reverse voltage

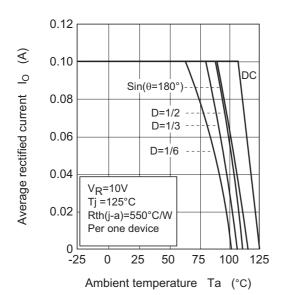
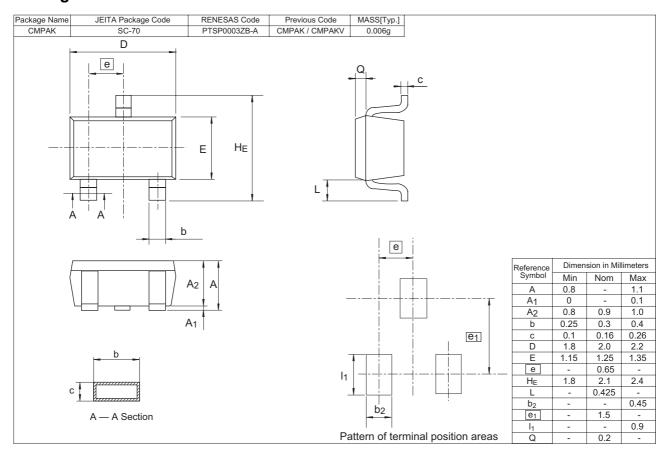


Fig.6 Average rectified current vs. Ambient temperature

Package Dimensions



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