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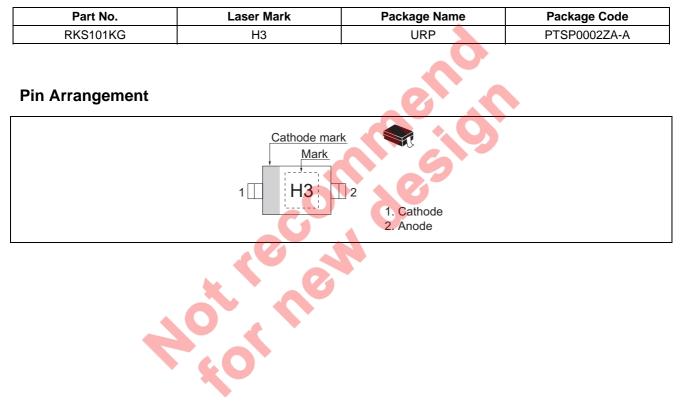
Silicon Epitaxial Planar Diode for High Voltage Switching

REJ03G1758-0100 Rev.1.00 Nov 28, 2008

Features

- Short reverse recovery time enable fast switching.
- Ultra small Resin Package (URP) is suitable for compact and high-density surface mount design.

Ordering Information



Absolute Maximum Ratings

			$(Ta = 25^{\circ}C)$
Item	Symbol	Value	Unit
Peak reverse voltage	V _{RM}	420	V
Reverse voltage	V _R	400	V
Peak forward current	I _{FM}	300	mA
Non-Repetitive peak forward surge current	I _{FSM} * ¹	2	А
Average rectified current	lo * ²	100	mA
Junction temperature	Тј	150	°C
Storage temperature	Tstg	-55 to +150	°C

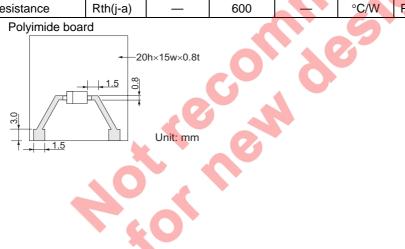
Notes: 1. 10 ms sine wave 1 pulse.

2. See from Fig.4 to Fig.6.

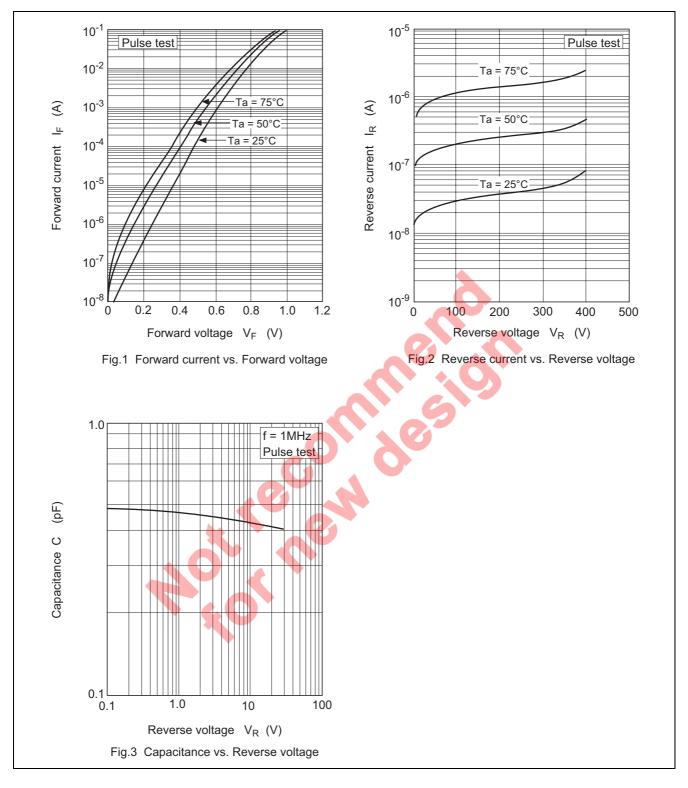
Electrical Characteristics

						$(Ta = 25^{\circ}C)$
Item	Symbol	Min	Тур	Max	Unit	Test Condition
Forward voltage	VF	—		1.5	V	I _F = 100 mA
Reverse current	I _R	—		10	μA	V _R = 400 V
Capacitance	С	—		3	рF	$V_R = 0 V$, f = 1 MHz
Reverse recovery time	t _{rr}	—		100	ns	$I_F = I_R = 30 \text{mA}, I_{rr} = 3 \text{mA}, R_L = 50 \Omega$
Thermal resistance	Rth(j-a)	_	600		°C/W	Polyimide board *1

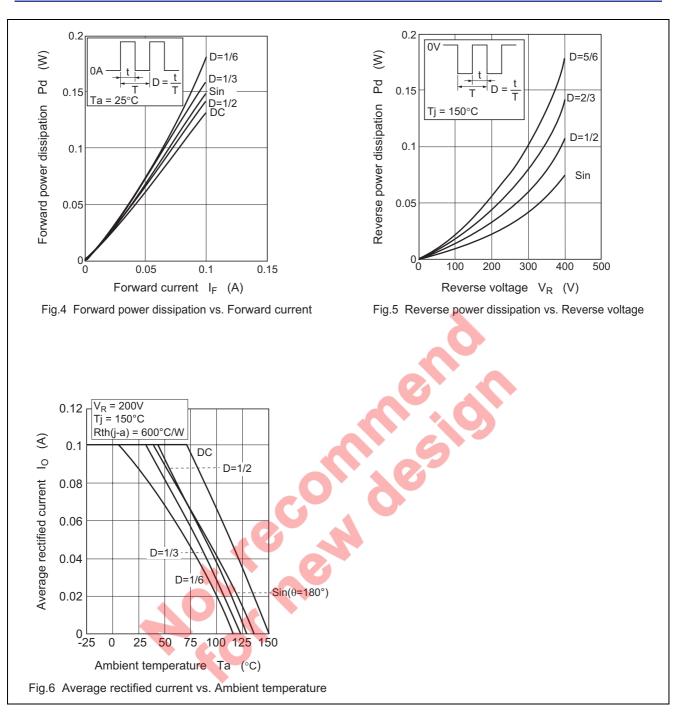
Note: 1. Polyimide board



Main Characteristics

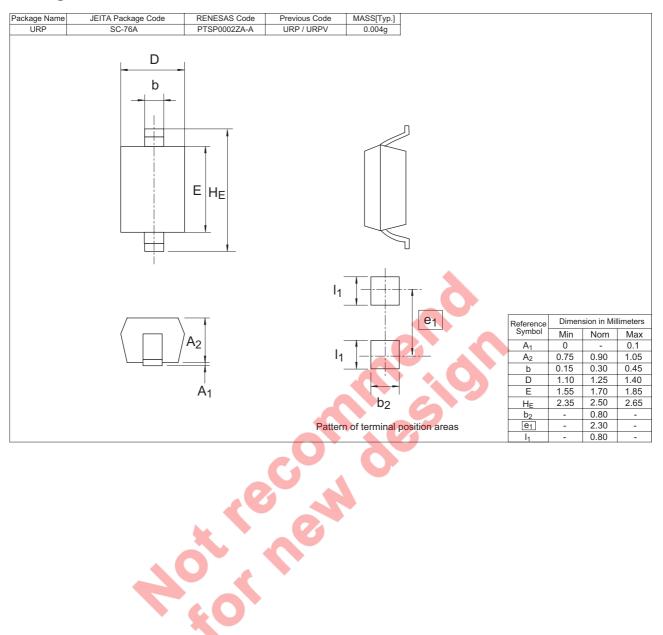


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Package Dimensions



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April 1st, 2010 Renesas Electronics Corporation

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