

RKS100KG

Silicon Epitaxial Planar Diode for High Speed Switching

REJ03G1698-0100 Rev.1.00 Jul 03, 2008

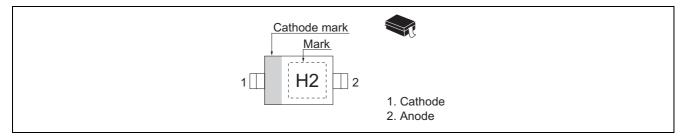
Features

- Low capacitance. (C = 2.0 pF max)
- Short reverse recovery time. ($t_{rr} = 3.0 \text{ ns max}$)
- Ultra small Resin Package (URP) is suitable for high density surface mounting and high speed assembly.

Ordering Information

Part No.	Laser Mark	Package Name	Package Code	
RKS100KG	H2	URP	PTSP0002ZA-A	

Pin Arrangement



Absolute Maximum Ratings

			$(Ta = 25^{\circ}C)$
Item	Symbol	Value	Unit
Peak reverse voltage	V _{RM}	85	V
Reverse voltage	V _R	80	V
Forward current	I _F * ¹	200	mA
Non-Repetitive peak forward surge current	I _{FSM} * ²	4	А
Junction temperature	Тј	150	°C
Storage temperature	Tstg	-55 to +150	°C

Notes: 1. Forward current with mounting on the board of Figure 1. 2. Within 1 µs forward surge current.

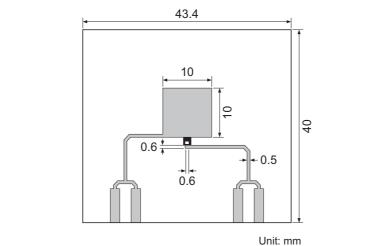
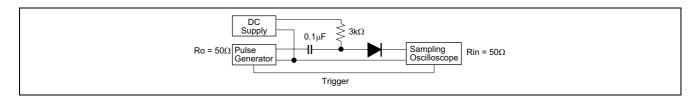


Figure 1 Board

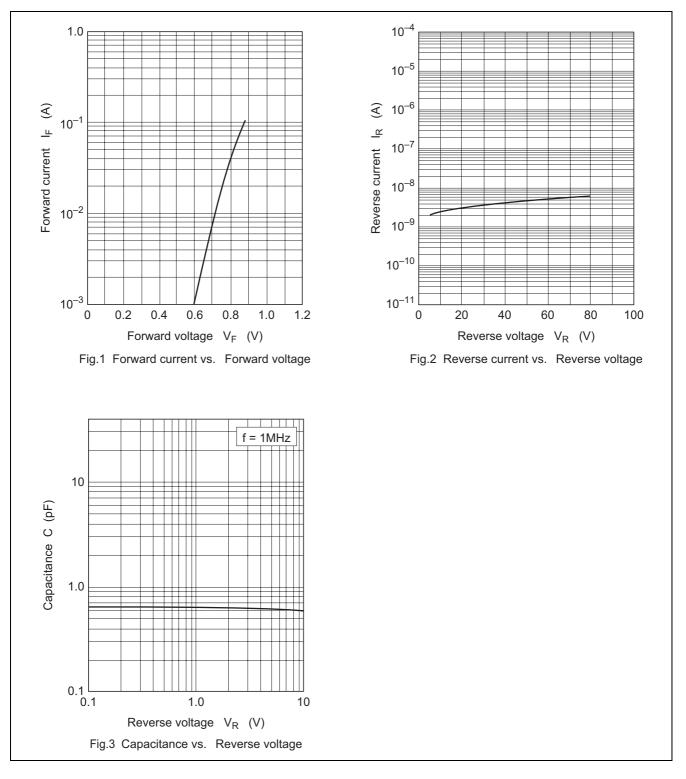
Electrical Characteristics

						$(Ta = 25^{\circ}C)$
ltem	Symbol	Min	Тур	Max	Unit	Test Condition
Forward voltage	V _{F1}	—		0.8	V	I _F = 10 mA
	V _{F2}	—		1.2		I _F = 100 mA
Reverse current	I _R	—		0.1	μA	V _R = 80 V
Capacitance	С	—		2.0	pF	$V_{R} = 0 V, f = 1 MHz$
Reverse recovery time*1	t _{rr}			3.0	ns	$I_F=10~mA,~V_R=6~V,~R_L=50~\Omega$

Note: 1. Reverse recovery time test circuit

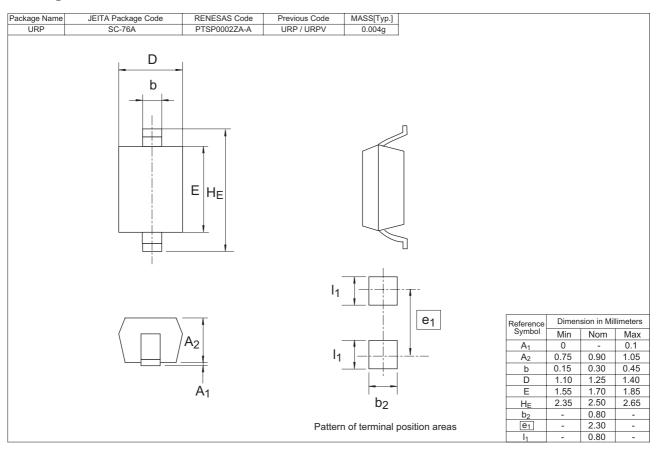


Main Characteristics



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Package Dimensions



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