

RKD703KL

Silicon Schottky Barrier Diode for high Speed Switching

REJ03G1756-0200 Rev.2.00 Oct 20, 2009

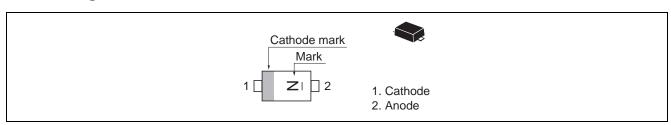
Features

- Low Power consumption (Low reverse leak current) and high speed (Low capacitance).
- We can support the lineup of environmental friendly halogen free type on your demand.
- Extremely small Flat Lead Package (EFP) is suitable for compact and high-density surface mount design.

Ordering Information

Part No	Laser Mark	Package Name	Package Code	Taping Abbreviation (Quantity)
RKD703KL R	N	EFP	PXSF0002ZA-A	R (10,000 pcs / reel)

Pin Arrangement



Absolute Maximum Ratings

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

Item	Symbol	Value	Unit
Repetitive peak reverse voltage	V_{RRM}	30	V
Average forward current	I ₀ *1	100	mA
Non-Repetitive Peak forward surge current	I _{FSM} * ²	200	mA
Junction temperature	Tj	125	°C
Storage temperature	Tstg	-55 to +125	°C

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

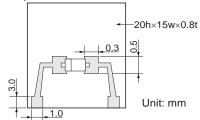
2. 10 ms sine wave 1 pulse.

Electrical Characteristics

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

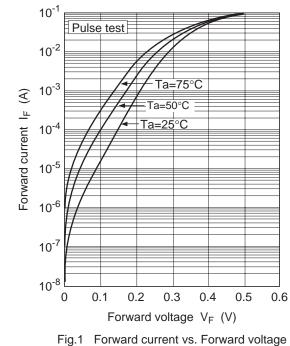
Item	Symbol	Min	Тур	Max	Unit	Test Condition
Forward voltage	V _{F1}	_	_	0.25	V	$I_F = 1 \text{ mA}$
	V _{F2}	_	_	0.30	V	$I_F = 5 \text{ mA}$
	V _{F3}	_	_	0.35	V	I _F = 20 mA
	V _{F4}	_	_	0.60	V	I _F = 100 mA
Reverse current	I _{R1}	_	_	6	μА	V _R =10 V
	I _{R2}	_	_	50	μА	V _R = 30 V
Capacitance	С	_	_	5	pF	V _R = 1 V, f = 1 MHz
Thermal resistance	Rth <j-a></j-a>	_	800	_	°C/W	Polyimide board *1

Notes: 1. Polyimide board



2. In the EFP package, some lead is exposed because the tip of the lead is used as the cutting plane. Therefore, the solderability of the lead tip has been ignored. Please test and confirm before use.

Main Characteristics



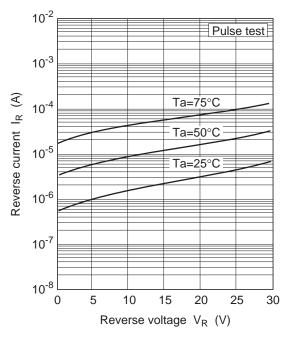


Fig.2 Reverse current vs. Reverse voltage

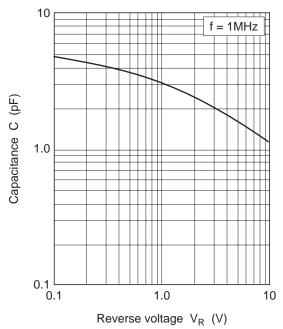


Fig.3 Capacitance vs. Reverse voltage

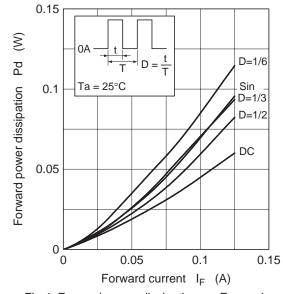


Fig.4 Forward power dissipation vs. Forward current

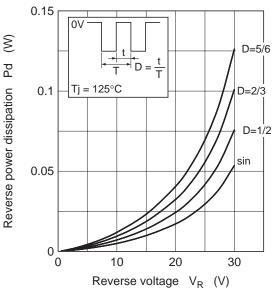


Fig.5 Reverse power dissipation vs. Reverse voltage

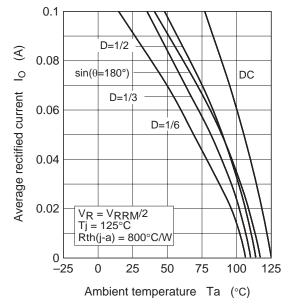
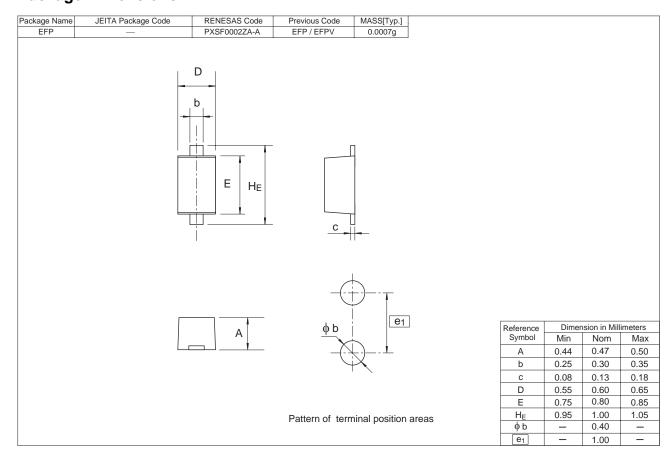


Fig.6 Average rectified current vs. Ambient temperature

Package Dimensions



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