RENESAS

360V - 10A - Single Diode Ultra Fast Recovery Diode

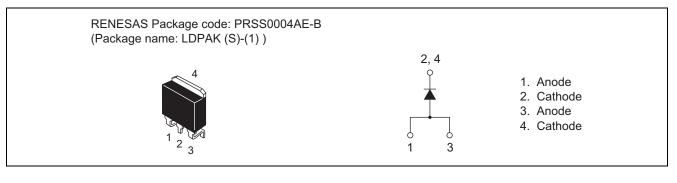
R07DS1067EJ0100 Rev.1.00 Apr 24, 2013

Datasheet

Features

- Ultra fast reverse recovery time: $t_{rr} = 25$ ns typ. (at $I_F = 10$ A, di/dt = 100 A/µs)
- Low forward voltage: $V_F = 1.4 \text{ V typ.}$ (at $I_F = 10 \text{ A}$)
- Low reverse current: $I_R = 1 \ \mu A \ max.$ (at $V_R = 360 \ V$)

Outline



Absolute Maximum Ratings

				$(Ta = 25^{\circ}C)$	
ltem		Symbol Ratings		Unit	
Maximum reverse voltage		V _{RM}	360	V	
Continuous forward current	Tc = 25°C	I _F	10	A	
	Tc = 100°C	I _F	4	A	
Peak surge forward current		I _{FSM}	50	A	
Junction to case thermal resistance		θj-cd	2.13	°C/W	
Junction temperature		Тј	150	٥C	
Storage temperature		Tstg	-55 to +150	٥C	

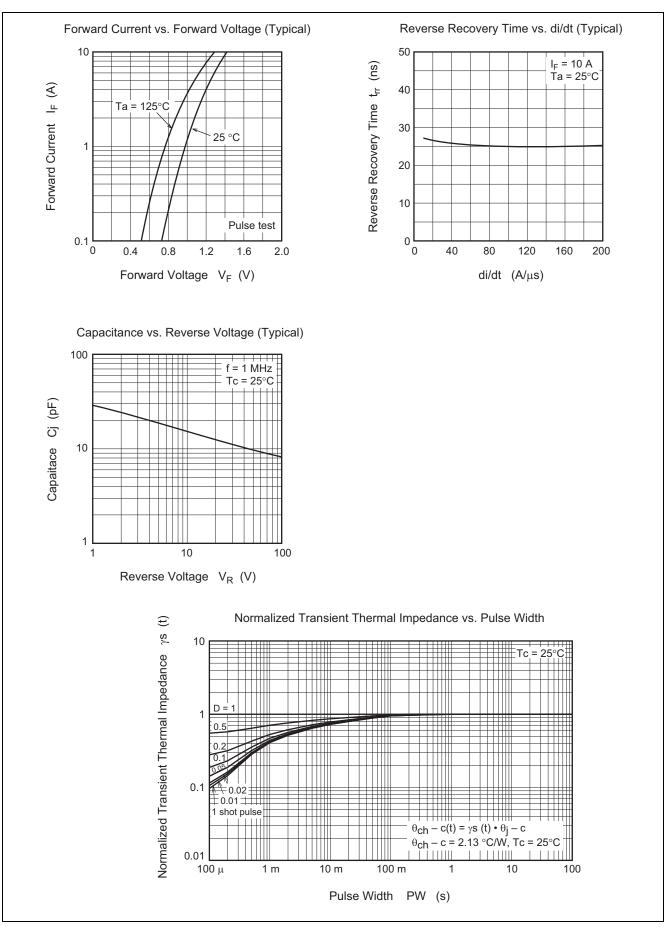
Electrical Characteristics

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

Item	Symbol	Min	Тур	Max	Unit	Test conditions
Forward voltage	V _F		1.4	1.7	V	I _F = 10 A
Reverse current	I _R			1	μA	V _R = 360 V
Reverse recovery time	t _{rr}	_	25	_	ns	I _F = 10A, di/dt = 100 A/μs

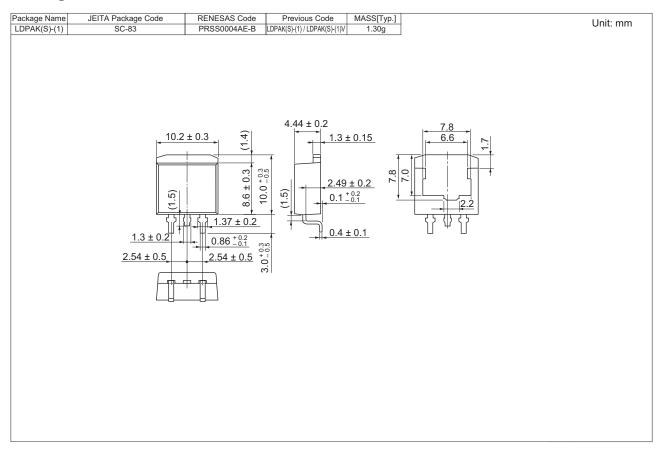


Main Characteristics





Package Dimensions



Ordering Information

Orderable Part Number	Quantity	Shipping Container
RJU3051SDPE-00#J3	1000 pcs	Taping



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