

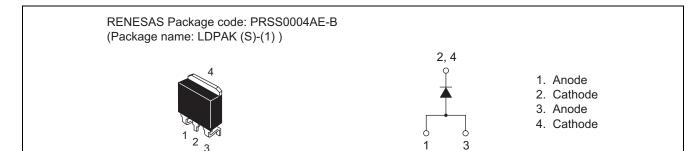
RJU6052SDPE

Single Diode Ultra Fast Recovery Diode R07DS0380EJ0100 Rev.1.00 Apr 26, 2011

Features

- Ultra fast reverse recovery time: $t_{rr} = 25$ ns typ. (at $I_F = 10$ A, di/dt = -100 A/ μ s)
- Low forward voltage: $V_F = 2.5 \text{ V}$ typ. (at $I_F = 10 \text{ A}$)
- Low reverse current: $I_R = 1 \mu A \text{ max.}$ (at $V_R = 600 \text{ V}$)

Outline



Absolute Maximum Ratings

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

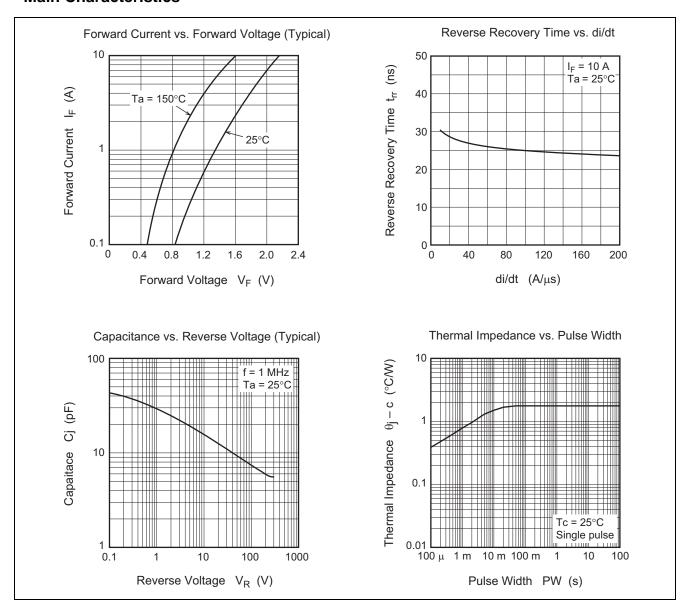
Item		Symbol	Ratings	Unit	
Maximum reverse voltage		V_{RM}	600	V	
Continuous forward current	urrent $Tc = 25^{\circ}C$ I_F		10	A	
	Tc = 100°C	I _F	5	Α	
Peak surge forward current		I _{FSM}	30	Α	
Junction to case thermal resis	tance	θj-cd	1.75	°C/W	
Junction temperature		Tj	150	°C	
Storage temperature		Tstg	-55 to +150	°C	

Electrical Characteristics

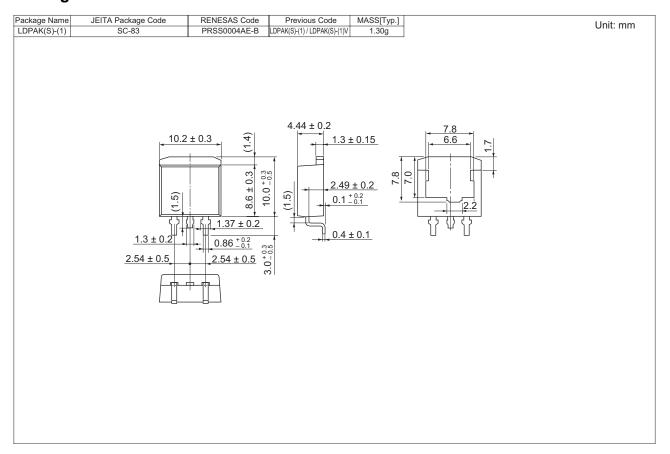
 $(Ta = 25^{\circ}C)$

Item	Symbol	Min	Тур	Max	Unit	Test conditions
Forward Voltage	V_{F}		2.5	3.0	V	I _F = 10 A
Reverse current	I _R	_	_	1	μА	V _R = 600 V
Reverse Recovery Time	t _{rr}	_	25	_	ns	$I_F = 10 \text{ A}, \text{ di/dt} = -100 \text{ A/}\mu\text{s}$

Main Characteristics



Package Dimension



Ordering Information

Orderable Part Number	Quantity	Shipping Container
RJU6052SDPE-00-J3	1000 pcs	Taping

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