

RJU6054SDPE

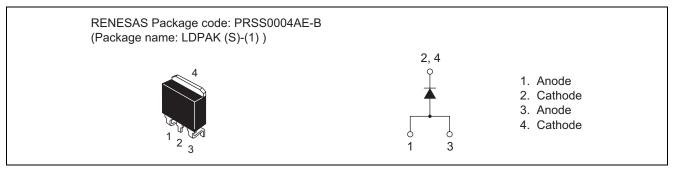
Single Diode Ultra Fast Recovery Diode

R07DS0384EJ0100 Rev.1.00 Apr 26, 2010

Features

- Ultra fast reverse recovery time: $t_{rr} = 25$ ns typ. (at $I_F = 30$ A, di/dt = 100 A/µs)
- Low forward voltage: $V_F = 2.5 \text{ V typ.}$ (at $I_F = 30 \text{ A}$)
- Low reverse current: $I_R = 1 \ \mu A \ max.$ (at $V_R = 600 \ V$)

Outline



Absolute Maximum Ratings

				$(Ta = 25^{\circ}C)$
ltem		Symbol	Ratings	Unit
Maximum reverse voltage		V _{RM}	600	V
Continuous forward current	Tc = 25°C	I _F	30	A
	Tc = 100°C	I _F	15	A
Peak surge forward current		I _{FSM}	120	A
Junction to case thermal resistance		θj-cd	1.0	°C/W
Junction temperature		Tj	150	°C
Storage temperature		Tstg	-55 to +150	°C

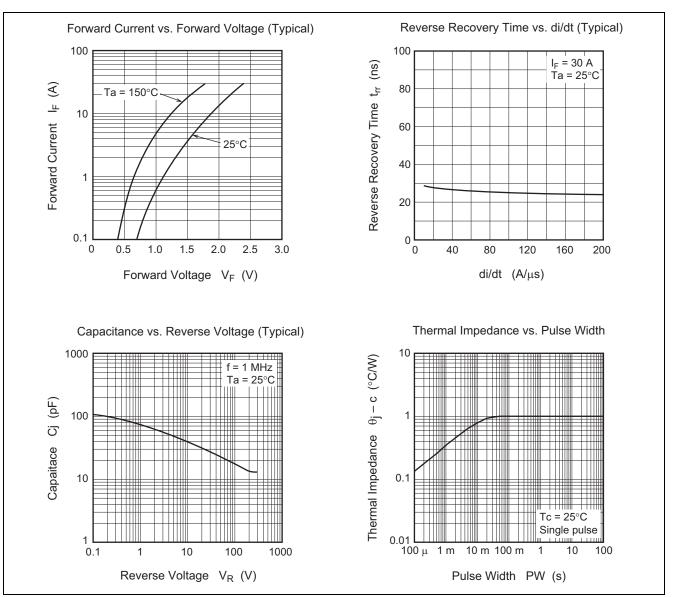
Electrical Characteristics

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

Item	Symbol	Min	Тур	Max	Unit	Test conditions
Forward Voltage	V _F	_	2.5	3.0	V	I _F = 30 A
Reverse current	I _R	_		1	μA	V _R = 600 V
Reverse Recovery Time	t _{rr}	_	25	_	ns	I _F = 30 A, di/dt = 100 A/µs

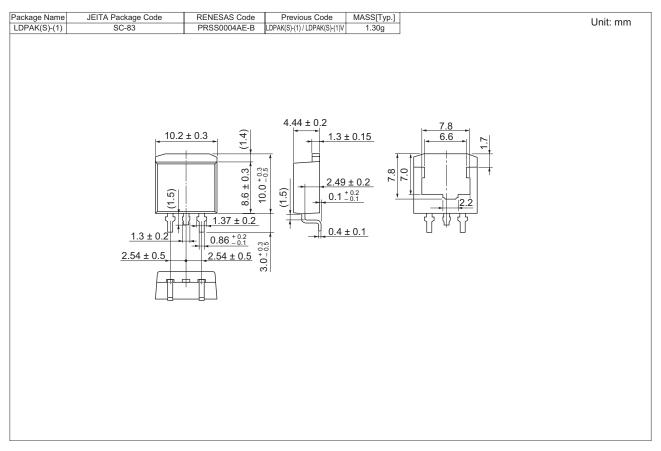


Main Characteristics





Package Dimensions



Ordering Information

Orderable Part Number	Quantity	Shipping Container
RJU6054SDPE-00-J3	1000 pcs	Taping



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