

RADJZUL I TRU RADJZLU	CURRENT	2.0 Ampere
RABS201 THRU RABS210	VOLTAGE RANGE	50 to 1000 Volts

Features

- Fast recovery glass passivated chip
- Low forward voltage drop
- Low leakage current
- High forward surge capability
- High temperature soldering: 260°C/10S at terminals
- Component in accordance to ROHS 2002/95/1 and WEEE 2002/96/EC

Mechanical Data

- Case: Molded plastic body
- Molding compound meets UL 94 V-0 flammability rating, Halogen-free, RoHS-compliant, and commercial grade
- Polarity: Molded on body
- Weight: 0.003 ounce, 0.10 grams

Maximum Ratings and Electrical Characteristics

- Ratings at 25°C ambient temperature unless otherwise specified
- Single Phase, half wave, 60Hz, resistive or inductive load
- For capacitive load derate current by 20%

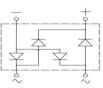
TYPE NUMBER			RAB S201	RAB S202	RAB S203	RAB S204	RAB S206	RAB S208	RAB S210	UNITS
Maximum Repetitive Peak Reverse Voltage		V_{RRM}	50	100	200	400	600	800	1000	Volts
Maximum RMS Voltage		V _{RMS}	35	70	140	280	420	560	700	Volts
Maximum DC Blocking Voltage		V _{DC}	50	100	200	400	600	800	1000	Volts
Maximum Average Forward Rectified Current T	I _(AV)			•	2.0				Amp	
Peak Forward Surge Current 8.3mS single half sine wave superimposed on rated load (JEDEC method)			70						Amps	
Maximum Instantaneous Forward Voltage @ 2.0A			1.3						Volts	
Maximum DC Reverse Current at Rated DC	T _A = 25℃		5.0						μA	
Blocking Voltage	T _A = 125℃	I _R				100				μΑ
Maximum Reverse Recovery TimeT_J=25°C $^{(Note 3)}$		T_{RR}		1	50		250	50	00	nS
Typical Junction Capacitance (Note 1)	Typical Junction Capacitance (Note 1)			30						рF
Typical Thermal Resistance (Note 2)		$R_{_{\theta JA}}$	26				°C/W			
		$R_{\theta JL}$				65				0,11
Operating Junction Temperature Range		$T_{J_{i}} \; T_{STG}$			(-5	55 to +1	50)			°C

Notes:

- 1. Measured at 1.0MHz and applied reverse voltage of 4.0 Volts.
- 2. Thermal Resistance test performed in accordance with JESD-51. Unit mounted on 15mm*12mm*1.6mm AL pad attach 195mm*110mm*10mm steel plate.
- 3. Reverse Recovery Test Conditions:If=0.5mA,Ir=1.0mA,Irr=0.25A
- 4. The typical data above is for reference only



ABS







RABS201 THRU RABS210

VOLTAGE RANGE CURRENT

8.3ms Single Half Sine-Wave

20

40 60 100

(JEDEC Method) T_i = T_{ima}

8 10

FIG.4-TYPICAL REVERSE

CHARACTERISTICS

TJ=125°C

T.=25°C

80

100

120

140

40

60

REVERSE VOLTAGE,(%)

+0.5A

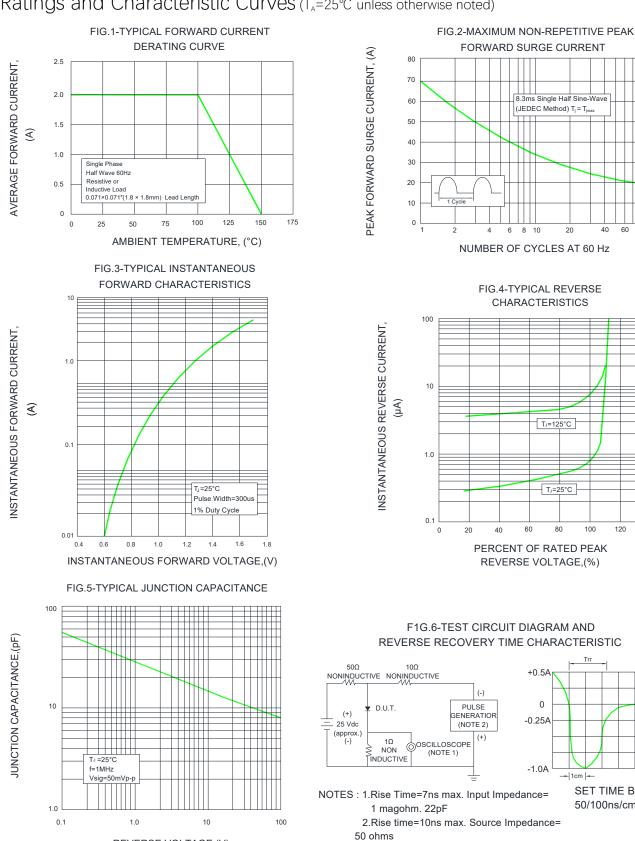
0

-0.25A

-1.0A

6

50 to 1000 Volts 2.0 Ampere



Ratings and Characteristic Curves (T_=25°C unless otherwise noted)

REVERSE VOLTAGE,(V)

50/100ns/cm

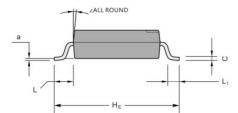
SET TIME BASE FOR

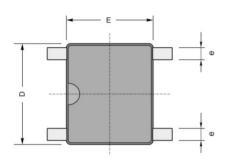


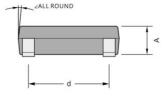
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Package Outline Dimensions in inches (millimeters)







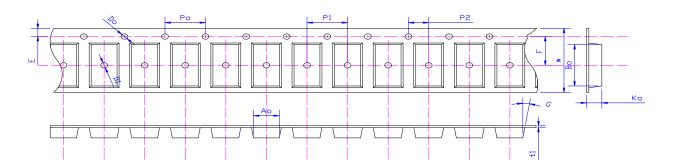
UNIT		А	С	D	E	H _E	d	е	L	L ₁	а	Z
mm	max	1.5	0.25	5.2	4.5	6.5	4.2	0.7	0.95	0.6	0.2	
	min 1.3	0.15	4.9	4.2	6.0	3.8	0.5	0.95	0.0	0.2	7 °	
mil	max	59	8.7	205	177	256	165	28	27	24	0	
mil	min	51	5.9	<mark>193</mark>	166	236	150	50 20 37	31	24	8	



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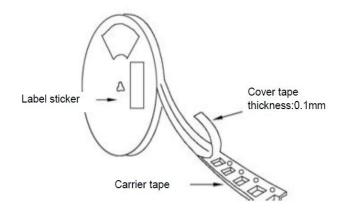
Packing Requirments

• PS black anti-static carrier tape packing



Specifications	Ao	Во	Ко	Ро	W	t1
ABS	5.31±0.10	6.68±0.10	1.59±0.10	4.00±0.1	12.0±0.10	0.30±0.02

• 13 "antistatic plastic reel

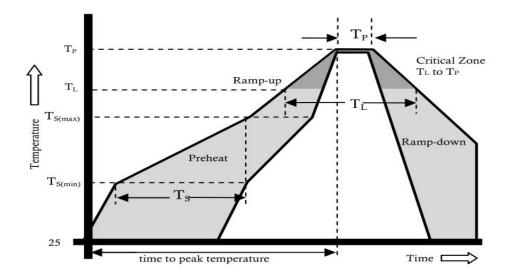


		13"	Reel	
DEVICE TYPE	Q'TY/REEL(pcs)	REEL/BOX	BOX/CARTOON	Q'TY/CARTON(pcs)
ABS	5000	2	8	80000



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Reflow Profile



	Reflow Condition	Pb-Free Assembly	
	Temperature Min.	+150°C	
Pre Heat	Temperature Max.	+200°C	
	Time(Min to Max)	60-180 secs.	
Average ram	np up rate(Liquidus Temp(T_L) to peak)	3°C/sec. Max.	
$T_s(max)$ to T_L - Ramp-up Rate		3°C/sec. Max.	
Reflow	Temperature (T_L) (Liquidus)	+217°C	
Kellow	Temperature (T _L)	60-150 secs.	
Peak Temp (T _P)		+(260+0/-5)°C	
Time within 5°C of actual Peak Temp (T_P)		25 secs.	
Ramp-down Rate		6°C/sec. Max.	
Ti	me 25°C to peak Temp (T _P)	8 min. Max.	
	Do not exceed	+260°C	



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Disclaimer

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