SEMICONDUCTOR

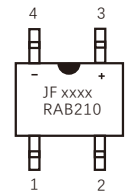
RABS22 THRU RABS210

FAST RECOVERY
GLASS PASSIVATED BRIDGE RECTIFIER
Reverse Voltage: 200 to 1000 Volts
Forward Current:2.0Amps

FEATURES

- Plastic package has Underwriters Laboratory Flammability Classification 94V-0
- Glass passivated chip junction
- Low forward voltage drop, High current capability
- Soft recovery improves EMC performance
- High temperature soldering guaranteed:260°C/10 seconds at terminals
- Component in accordance to RoHS 2015\863\EU

ABS

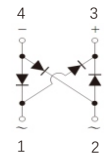


Pin Diagram

Marking
JF:Logo
XXXX:Data code
RABS210:Type

MECHANICAL DATA

- Case:ABS molded plastic body
- Terminals: Plated leads solderable per MIL-STD-750,method 2026
- Mounting Position: Any



Internal Schematic

TYPICAL APPLICATIONS

Used in AC/DC bridge full wave rectification for SMPS, lighting ballaster, adapter, charger, home appliances, office equipment, and telecommunication applications.

MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

(Rating at 25℃ ambient temperature unless otherwise specified. Single phase ,half wave ,60Hz,resistive or inductive load. For capacitive load,derate current by 20%.)

Parameters		Symbols	RABS22	RABS24	RABS26	RABS28	RABS210	Units
Maximum Recurrent Peak Reverse Voltage		V_{RRM}	200	400	600	800	1000	Volts
Maximum RMS Voltage		V_{RMS}	140	280	420	560	700	Volts
Maximum DC Blocking Voltage		V_{DC}	200	400	600	800	1000	Volts
Maximum Average Forward Rectified Current		$I_{(AV)}$	2.0					Amp
Peak Forward Surge Current 8.3ms single half sine-wave superimposed on rated load (JEDEC method)		I_{FSM}	60					Amps
Rating for fusing (t=8.3mS)		I^2t	14.9					A^2S
Maximum DC Reverse Current at rated DC blocking voltage	T_j=25℃	I_R	5.0					μA
	T_j=125℃		200					
Maximum Instantaneous Forward Voltage at 2.0A		V_F	1. 3					Volts
Typical thermal resistance(Note 2)		$R_{\theta JA}$ $R_{\theta JC}$	62.5 25					°C/W
Maximum reverse recovery time(Note1)		trr	150		250	500		ns
Operating junction and storage temperature range		T_J T_{STG}	-55 to +150					°C

Note: 1.Test conditions: IF=0.5A,IR=1.0A,IRR=0.25A.
2.Device mounted on FR-4 substrate, 1"*1", 2oz, single-sided, PC boards with 0.56"*0.73" copper pad.

AVAILABALE PACK INFORMATION

Product code	Pack	Reel Size (mm)	Quantity (pcs/reel)	Quantity (reel/box)	Quantity (box/carton)	Quantity (K/carton)
RABS22-RABS210-ABS	T/R	Φ330	3000	2	8	48

FIG.1-TYPRCAL FORWARD CURRENT DERATING CURVE

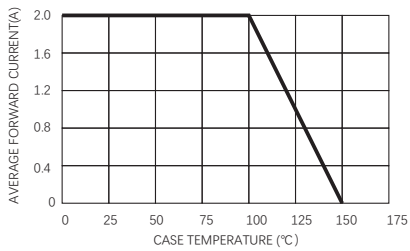


FIG.2-MAXIMUM NON-REPETITIVE FORWARD SURGE CURRENT

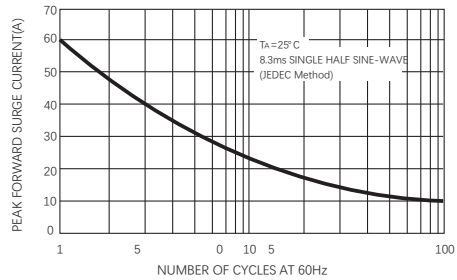


FIG.3 -TYPICAL REVERSE CHARACTERISTICS

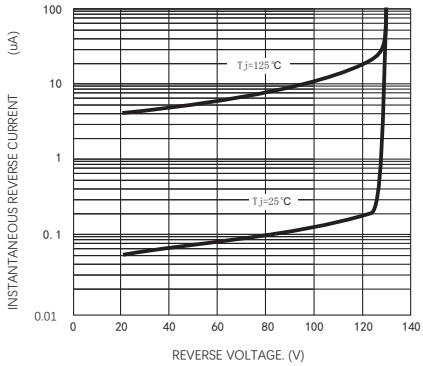
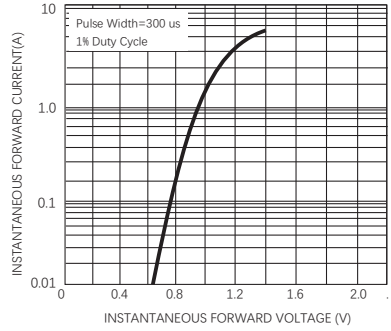
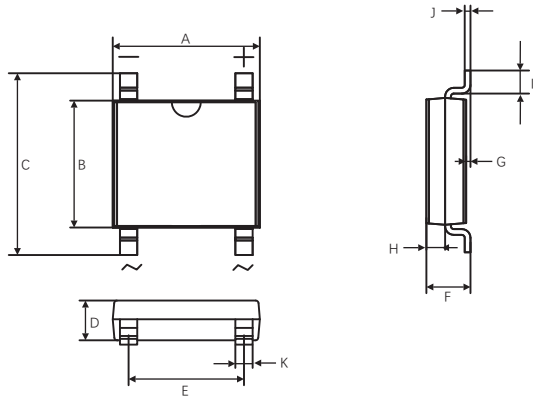


FIG4-TYPICAL FORWARD CHARACTERISTICS

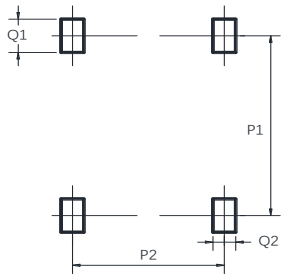


ABS



UNIT:mm		
DIM	MIN	MAX
A	4.8	5.4
B	4.2	4.6
C	6.0	6.8
D	1.22	1.50
E	3.8	4.4
F	1.2	1.5
G	0.05	0.2
H	0.37	0.47
I	0.4	0.8
J	0.15	0.25
K	0.5	0.85

Suggested Pad Layout



Dim	Min(mm)
P1	5.72
P2	4.00
Q1	1.00
Q2	0.90

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