SEMICONDUCTOR

ABS202 THRU ABS210

SURFACE MOUNT GLASS PASSIVATED BRIDGE RECTIFIER

Reverse Voltage: 100 to 1000 Volts
Forward Current: 2.0 Amps

FEATURES

- Plastic package has Underwriters Laboratory Flammability Classification 94V-0
- Glass passivated chip junction
- Ideal for printed circuit board
- High temperature soldering guaranteed:260C/10 seconds at terminals
- Component in accordance to RoHS 2015/863/EU

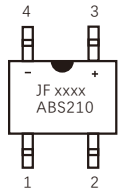
MECHANICAL DATA

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

TYPICAL APPLICATIONS

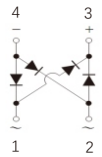
Used in AC/DC bridge full wave rectification for SMPS, lighting ballaster, adapter, charger, home appliances, office equipment, and telecommunication applications.

ABS



Pin Diagram

Marking
JF:Logo
XXXX:Data code
ABS210:Type



Internal Schematic

MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

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

Parameters		Symbols	ABS202	ABS204	ABS206	ABS208	ABS210	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					Amps
Peak Forward Surge Current 8.3ms single half sine-wave superimposed on rated load (JEDEC method)		I_{FSM}	55					Amps
Maximum Instantaneous Forward Voltage at I_F=	1.0A	V_F	0.95					Volts
	2.0A		1.10					
Rating for fusing(t=8.3ms)		I^2t	12.5					A^2s
Maximum DC Reverse Current at rated DC blocking voltage	T_A=25°C	I_R	5					μA
	T_A=125°C		100					
Typical junction capacitance(Note1)		C_J	16					PF
Typical thermal resistance(Note 2)		$R_{\theta JA}$ $R_{\theta JL}$	62 25					°C/W
Operating junction and storage temperature range		T_J T_{STG}	-55 to +150					°C

Notes: 1.Measured at 1MHZ and applied reverse voltage of 4.0 Volts.
2.Device mounted on FR-4 substrate, 1"*1", 2oz, single-sided, PC boards with 0.56"*0.73" copper pad.

FIG.1-TYPRCAL FORWARD CURRENT DERATING CURVE

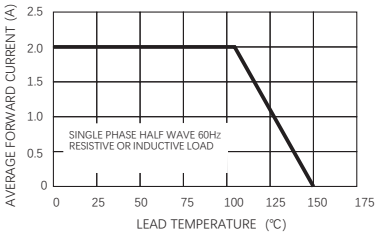


FIG.2-MAXIMUM NON-REPETITIVE FORWARD SURGE CURRENT

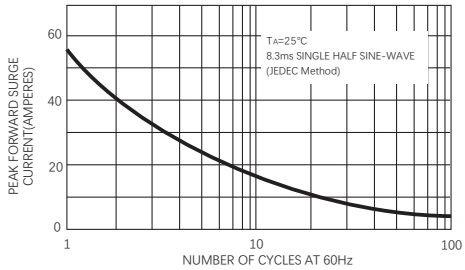


FIG3-TYPICAL JUNCTION CAPACITANCE

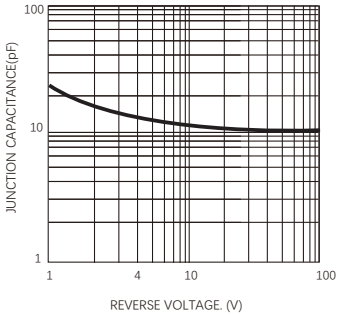


FIG4-TYPICAL FORWARD CHARACTERISTICS

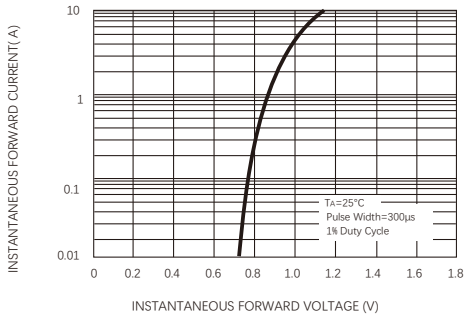
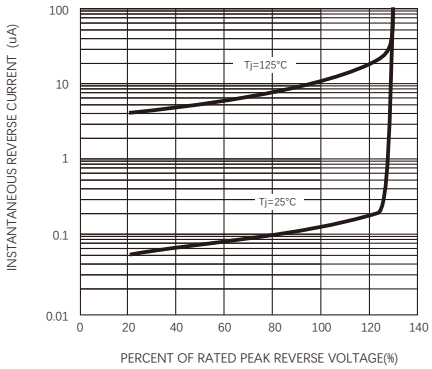


FIG.5-TYPICAL REVERSE CHARACTERISTICS

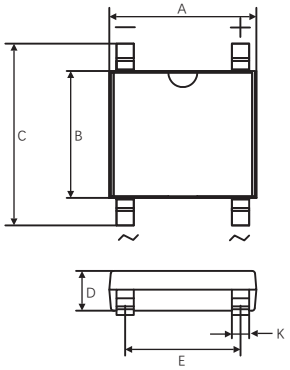


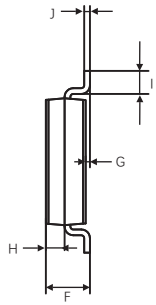
AVAILABALE PACK INFORMATION

Product code	Pack	Reel Size (mm)	Quantity (pcs/reel)	Box Size L x W x H (mm)	Quantity (Reel/box)	Carton Size L x W x H (mm)	Quantity (Box/carton)	Quantity (Kpcs/carton)
ABS202-ABS210-MBS	T/R	Φ330	3000	330x35x333	2	364×364×360	8	48

PACKAGE OUTLINE DIMENSIONS

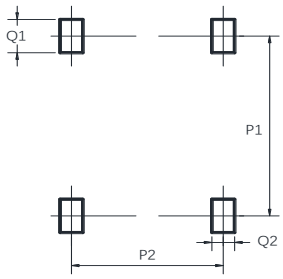
ABS





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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