

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

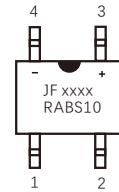
MECHANICAL DATA

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

TYPICAL APPLICATIONS

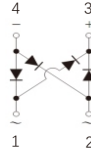
Used in AC/DC bridge full wave rectification for SMPS, lighting ballaster, adapter, charger, home appliances, office equipment, and telecommunication applications.

ABS



Pin Diagram

Marking
JF:Logo
XXXX:Data code
RABS10: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	RABS2	RABS4	RABS6	RABS8	RABS10	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	$I_{(AV)}$	1.0					Amps
Peak Forward Surge Current 8.3ms single half sine-wave superimposed on rated load (JEDEC method)	I_{FSM}	30					Amps
Rating for fusing (t=8.3ms)	I^2t	3.735					A ² s
Maximum DC Reverse Current at rated DC blocking voltage	$T_A=25^{\circ}C$	5					μA
	$T_A=125^{\circ}C$	100					
Maximum Instantaneous Forward Voltage at 1.0A	V_F	1.3					Volts
Typical thermal resistance(Note2)	$R_{\theta JA}$	62.5					$^{\circ}C/W$
	$R_{\theta JL}$	25					
Maximum reverse recovery time(Note1)	trr	150	250	500			ns
Operating junction and storage temperature range	T_J, T_{STG}	-55 to +150					$^{\circ}C$

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.

AVAILABLE PACK INFORMATION

Product code	Pack	Reel Size (mm)	Quantity (pcs/reel)	Quantity (reel/box)	Quantity (box/carton)	Quantity (K/carton)
RABS2-RABS10-ABS	T/R	Φ330	3000	2	8	48

FIG.1-TYPICAL FORWARD CURRENT DERATING CURVE

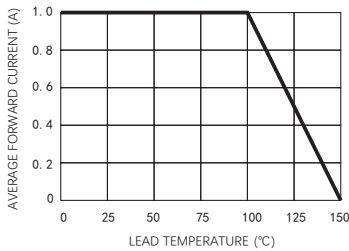


FIG.2-MAXIMUM NON-REPETITIVE FORWARD SURGE CURRENT

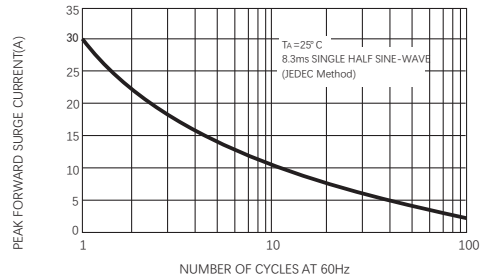


FIG.3-TYPICAL REVERSE CHARACTERISTICS

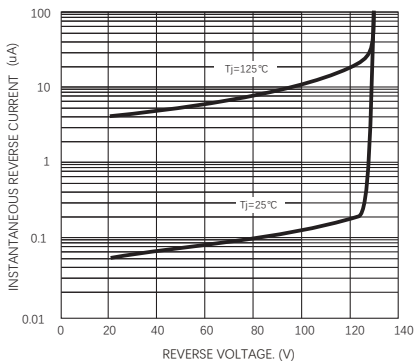
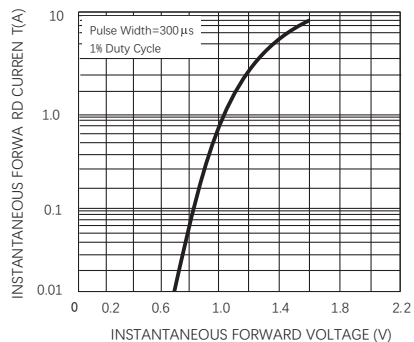
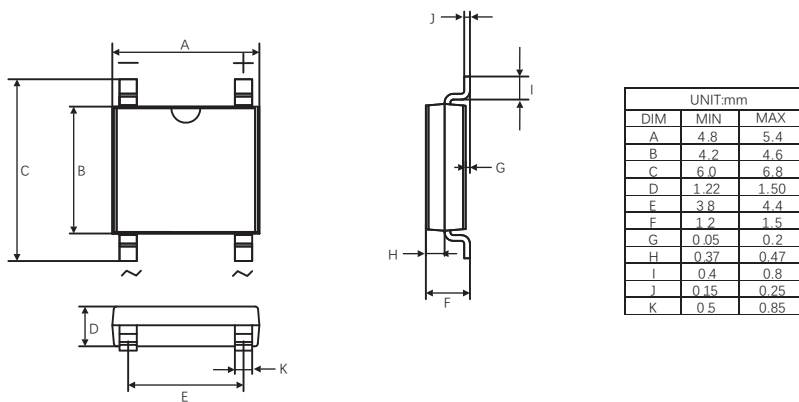


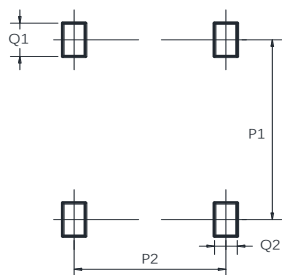
FIG4-TYPICAL FORWARD CHARACTERISTICS



ABS



Suggested Pad Layout



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

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