

# RB491DWS

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## SCHOTTKY BARRIER DIODE

### Features

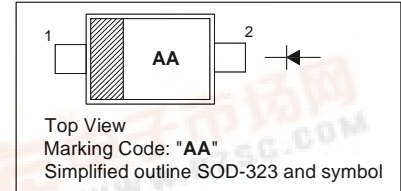
- Small surface mounting type
- Ultra low  $V_F$

### Applications

- For switching power supply
- Low-power rectification

### PINNING

PIN	DESCRIPTION
1	Cathode
2	Anode



### Absolute Maximum Ratings ( $T_a = 25^\circ\text{C}$ )

Parameter	Symbol	Value	Unit
Peak Reverse Voltage	$V_{RM}$	25	V
Reverse Voltage	$V_R$	20	V
Forward Current	$I_F$	1	A
Peak Forward Surge Current (60 Hz for 1 Cyc.)	$I_{FSM}$	3	A
Junction Temperature	$T_J$	125	$^\circ\text{C}$
Storage Temperature Range	$T_{stg}$	- 40 to + 125	$^\circ\text{C}$

### Characteristics at $T_a = 25^\circ\text{C}$

Parameter	Symbol	Max.	Unit
Forward Voltage at $I_F = 1\text{ A}$	$V_F$	0.45	V
Reverse Current at $V_R = 20\text{ V}$	$I_R$	200	$\mu\text{A}$

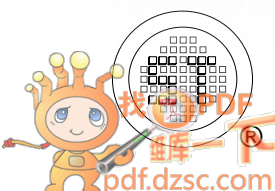
Note: ESD sensitive product handling required.

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Date : 01/09/2006



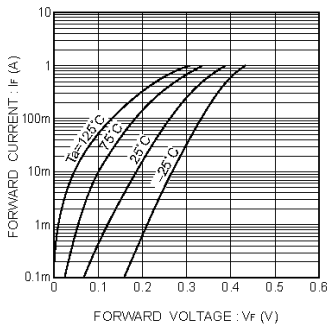


Fig.1 Forward characteristics

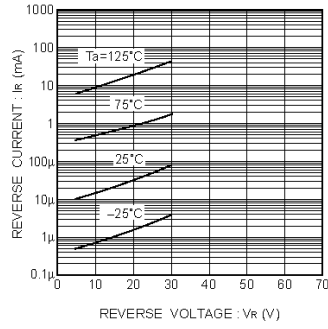


Fig.2 Reverse characteristics

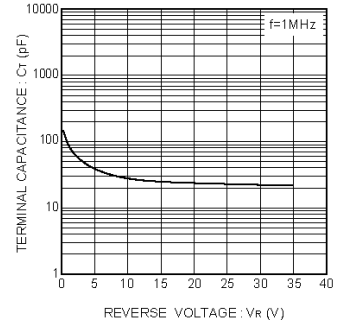


Fig.3 Capacitance between terminals characteristics

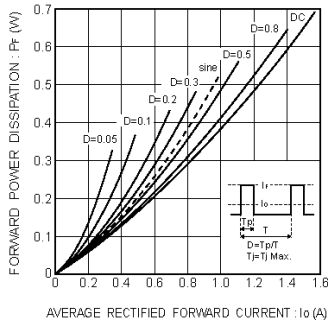


Fig.4 Forward power dissipation characteristics

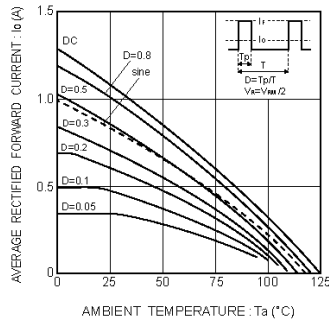
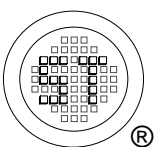
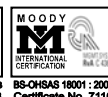
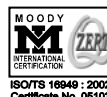


Fig.5 Derating curve (Io - Ta)



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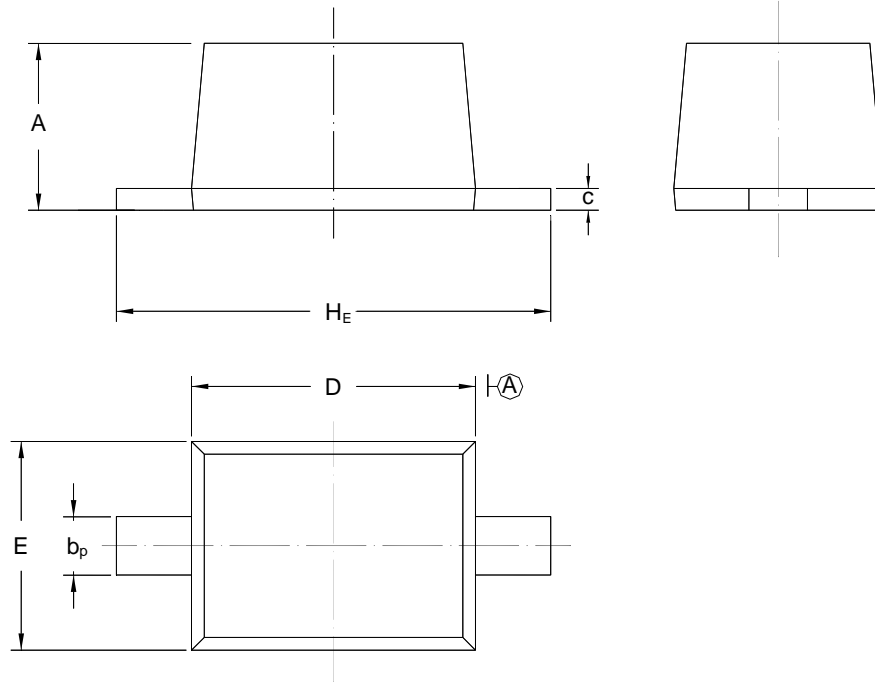
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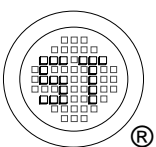
## PACKAGE OUTLINE

Plastic surface mounted package; 2 leads

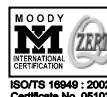
SOD-323



UNIT	A	b <sub>p</sub>	C	D	E	H <sub>E</sub>
mm	1.10 0.80	0.40 0.25	0.15 0.10	1.80 1.60	1.35 1.15	2.80 2.30



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ISO/TS 16949 : 2002  
 Certificate No. 05103



ISO14001 : 2004  
 Certificate No. 7116



ISO 9001 : 2008  
 Certificate No. 0508098



BS-OHSAS 18001 : 2007  
 Certificate No. 7116



IECQ QC 080000  
 Certificate No. FC18741481

Dated : 01/09/2006