imall

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With the principle of "Quality Parts, Customers Priority, Honest Operation, and Considerate Service", our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip, ALPS, ROHM, Xilinx, Pulse, ON, Everlight and Freescale. Main products comprise IC, Modules, Potentiometer, IC Socket, Relay, Connector. Our parts cover such applications as commercial, industrial, and automotives areas.

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SMD Glass Passivated Bridge Rectifiers



DB101S-G Thru. DB107S-G Reverse Voltage: 50 to 1000V Forward Current: 1.0A **RoHS** Device



Features

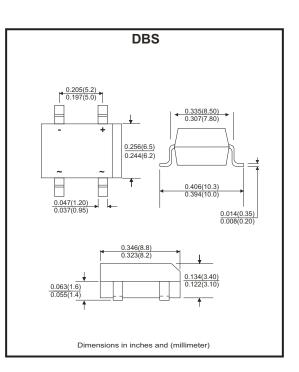
- -Rating to 1000V PRV.
- -Ideal for printed circuit board.
- -Low forward voltage drop.
- -High current capability.
- -The plastic material has UL flammability classification 94V-0
- -UL recognized file # E349301

Mechanical Data

-Polarity: As marked on Body.

-Weight: 0.38 grams.

-Mounting position: Any.



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%

Parameter	Symbol	DB 101S-G	DB 102S-G	DB 103S-G	DB 104S-G	DB 105S-G	DB 106S-G	DB 107S-G	Unit
Maximum Recurrent Peak Reverse Voltage	VRRM	50	100	200	400	600	800	1000	V
Maximum RMS Voltage	Vrms	35	70	140	280	420	560	700	V
Maximum DC Blocking Voltage	VDC	50	100	200	400	600	800	1000	V
Maximum Average Forward Rectified Current @TA=40°C	I _(AV)				1.0				A
Peak Forward Surge Current, 8.3ms Single Half Sine-Wave Super Imposed On Rated Load (JEDEC Method)	IFSM	30			А				
Maximum Forward Voltage at 1.0A DC	VF	1.1			V				
Maximum DC Reverse Current @TJ=25°C At Rated DC Blocking Voltage @TJ=125°C	IR	10.0 500			μA				
I ² T Rating for Fusing (t<8.3ms)	l ² t	3.735			A ² s				
Typical Junction Capacitance Per Element (Note 1)	CJ	25				pF			
Typical Thermal Resistance (Note 2)	Reja	40				°C/W			
Operating Temperature Range	TJ	-55 to +150			°C				
Storage Temperature Range	Тѕтс	-55 to +150			°C				

Notes:

Measured at 1.0MHz and applied reverse voltage of 4.0V DC.
Thermal resistance from junction to ambient mounted on P.C.B with 0.5"×0.5" (13×13mm) copper pads.

Company reserves the right to improve product design, functions and reliability without notice.



Rating and Characteristics Curves (DB101S-G Thru. DB107S-G)

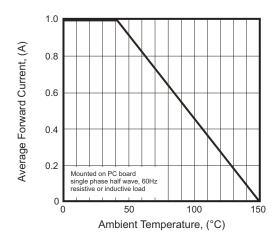


Fig.1 - Forward Current Derating Curve

Fig.3 - Typical Junction Capacitance

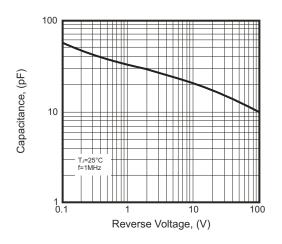
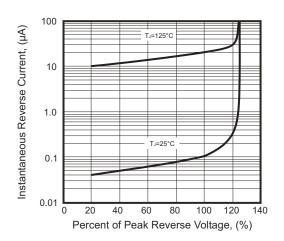


Fig.5 - Typical Reverse Characteristics



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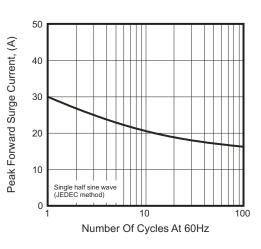
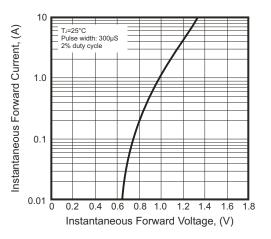
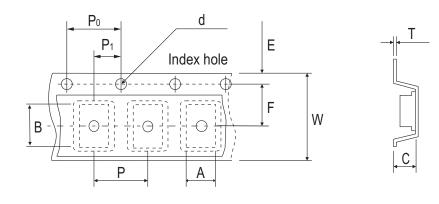


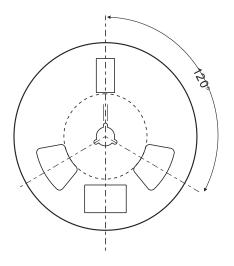
Fig.4 - Typical Forward Characteristics

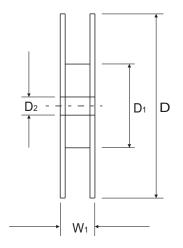


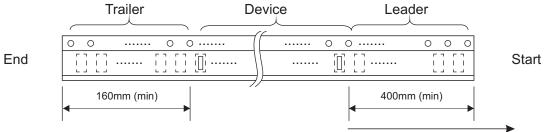


Reel Taping Specification









Direction of Feed

	SYMBOL	Α	В	С	d	D	D1	D2
DBS	(mm)	8.64 ± 0.10	10.41 ± 0.10	3.81 ± 0.10	$\textbf{1.55} \pm \textbf{0.05}$	330	50.0 MIN.	13.00 ± 0.20
	(inch)	$\textbf{0.340} \pm \textbf{0.004}$	$\textbf{0.409} \pm \textbf{0.004}$	0.150 ± 0.004	0.061 ± 0.002	13	1.969 MIN.	$\textbf{0.512} \pm \textbf{0.008}$

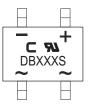
	SYMBOL	E	F	Р	Po	P 1	Т	w	W 1
DBS	(mm)	1.75 ± 0.10	$\textbf{7.50} \pm \textbf{0.05}$	12.00 ± 0.10	4.00 ± 0.10	$\textbf{2.00} \pm \textbf{0.10}$	0.32	$\textbf{16.00} \pm \textbf{0.30}$	16.00~18.40
	(inch)	0.069 ± 0.004	$\textbf{0.295} \pm \textbf{0.002}$	$\textbf{0.472} \pm \textbf{0.004}$	$\textbf{0.157} \pm \textbf{0.004}$	0.079 ± 0.004	0.013	0.630 ± 0.012	0.630~0.724

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Part Number Marking code Packaging DB101SP-G **DB101S** Tube DB102SP-G **DB102S** Tube DB103SP-G Tube **DB103S** DB104SP-G **DB104S** Tube DB105SP-G Tube **DB105S** DB106SP-G **DB106S** Tube DB107SP-G **DB107S** Tube Reel DB101ST-G **DB101S** DB102ST-G Reel **DB102S** DB103ST-G Reel **DB103S** DB104ST-G **DB104S** Reel DB105ST-G **DB105S** Reel DB106ST-G **DB106S** Reel DB107ST-G **DB107S** Reel

Marking Code



XXX = Product type marking code ⊂ = Comchip Logo

Note:

1) Suffix code after part number to specify packaging item .

Packaging	Code
TUBE PACK	Р
REEL PACK	Т

Suggested PAD Layout

SIZE	DBS			
SIZE	(mm)	(inch)		
Α	1.20 Min	0.047 Min		
В	1.52 Min	0.060 Min		
С	5.21 Ref	0.205 Ref		
D	10.26 Max	0.404 Max		

Standard Packaging

	TUBE PACK				
Case Type	TUBE (pcs)	BOX (pcs)			
DBS	50	5,000			

	•
	D
C	•

	REEL PACK				
Case Type	REEL (pcs)	Reel Size (inch)			
DBS	1,000	13			

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