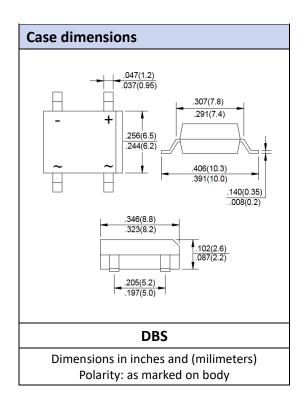


SMD Glass Passivated Bridge Rectifiers

Primary characteristics					
Parameter	Value	Unit			
V _R reverse voltage range nom.	50 ~ 1000	V			
I _F forward current	1.0	А			

Features

- DBS case for easy automatic insertion
- Pb-Free and RoHS Compliant
- Rating to 1000V peak reverse voltage
- Low forward voltage drop, high current capability
- Reliable low cost construction utilizing molded plastic technique results in inexpensive product
- The plastic material has UL flammability classification 94V-0



Part numbering system					
DB10	4	S			
\downarrow	\downarrow	\downarrow			
Series code	Peak Reverse Voltage	Series code			
	(see: Characteristics table below)				

Characteristics table										
		Symbol	DB101S	DB102S	DB103S	DB104S	DB105S	DB106S	DB107S	Unit
Maximum Recurrent Peak Reverse Voltage		V_{RRM}	50	100	200	400	600	800	1000	V
Maximum RMS Voltage		V_{RMS}	35	70	140	280	420	560	700	V
Maximum DC Blocking Voltage		V_{DC}	50	100	200	400	600	800	1000	V
Maximum Average Forward Rectified Current @T _A =40°C		I _(AV)	1.0							Α
Peak Forward Surge Current ¹⁾		I _{FSM}	50						Α	
Maximum Forward Voltage at 1.0A DC		V_{F}	1.1						V	
Maximum DC Reverse Current @Rated DC Blocking	@T _J =25°C		10							
Voltage	@T _J =125°C	IR				500				μΑ
I ² t Rating for Fusing (t<8.3ms)		l²t	10.4						A^2s	
Typical Junction Capacitance Per Element ²⁾		Cı	25					pF		
Typical Thermal Resistance ³⁾		R _{0JC}	40					°C/W		
Operating Temperature Range		Τı	-55 to 150					°C		
Storage Temperature Range		T _{STG}	-55 to 150					°C		

^{1) 8.3}ms single half sinewave superimposed on rated load (JEDEC method)

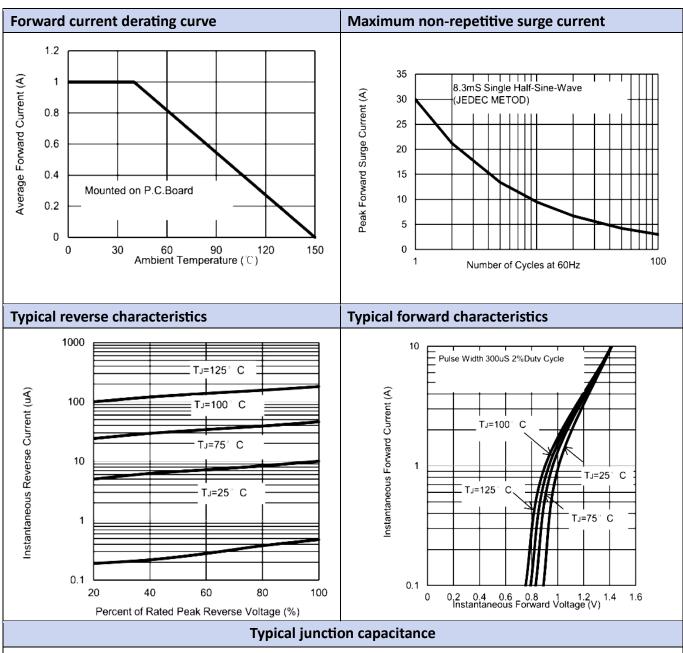
Maximum parameters rated at 25°C ambient temperature unless specified otherwise. Single phase, half wave, 60Hz, resistive or inductive load. For capacitive load derate current by 20%.

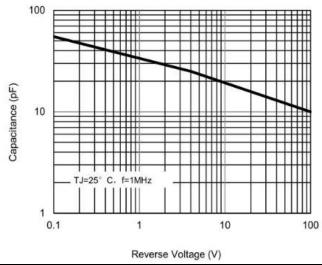
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²⁾ Measured at 1.0MHz and applied reverse voltage of 4.0V DC

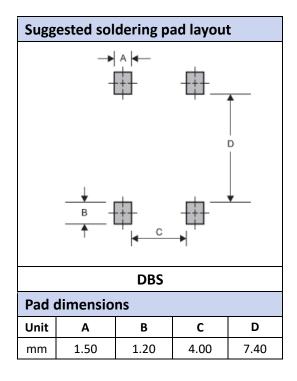
³⁾ Thermal resistance from junction to ambient mounted on P.C.B. with 0.5*0.5" (13*13mm) copper pads











Ordering information						
Part Number	Package	Shipping Quantity	Dimensions			
DB101S ~ DB107S	DBS	1500 pcs / reel				

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