

## 1.0A Miniature Glass Passivated Single-Phase Surface Mount Bridge Rectifiers-50-1000V

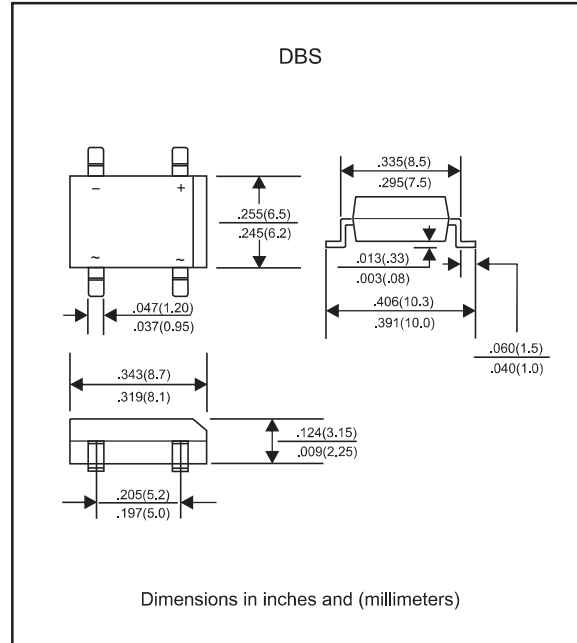
### Features

- Surge overload ratings to 30 amperes peak.
- Save space on printed circuit board.
- Ideal for automated replacement.
- Reliable low cost construction utilizing molded plastic technology results in inexpensive product.
- Glass passivated chip junctions.
- Lead-free parts meet RoHS requirements.
- UL recognized file # E321971
- Suffix "-H" indicates Halogen free parts, ex. DB101S-H.

### Mechanical data

- Epoxy:UL94-V0 rated flame retardant
- Case : Molded plastic, DBS
- Terminals : Solder plated, solderable per MIL-STD-750, Method 2026
- Polarity : marked on body
- Mounting Position : Any
- Weight : Approximated 0.32 gram

### Package outline



### Maximum ratings and Electrical Characteristics (AT $T_A=25^\circ\text{C}$ unless otherwise noted)

PARAMETER	CONDITIONS	Symbol	MIN.	TYP.	MAX.	UNIT
Forward rectified current	See Fig.1	$I_O$			1.0	A
Forward surge current	8.3ms single half sine-wave superimposed on rate load (JEDEC methode)	$I_{FSM}$			30	A
Reverse current	$V_R = V_{RRM}$ $T_J = 25^\circ\text{C}$	$I_R$			10	uA
	$V_R = V_{RRM}$ $T_J = 125^\circ\text{C}$				500	
$I^2t$ Rating for Fusing	$t < 8.3\text{ms}$	$I^2t$			3.74	$\text{A}^2\text{s}$
Typical Junction Capacitance Per Element	Measured at 1.0MHz and applied reverse voltage of 4.0V DC	$C_J$		25		pF
Typical thermal resistance	Junction to ambient mounted on P.C.B with 0.5*0.5"(13*13mm) copper pads.	$R_{\theta JA}$		40		$^\circ\text{C}/\text{W}$
Storage temperature		$T_{STG}$	-65		+175	$^\circ\text{C}$

SYMBOLS	$V_{RRM}^{*1}$ (V)	$V_{RMS}^{*2}$ (V)	$V_R^{*3}$ (V)	$V_F^{*4}$ (V)	Operating temperature $T_J$ , ( $^\circ\text{C}$ )
DB101S	50	35	50	1.10	-55 to +150
DB102S	100	70	100		
DB103S	200	140	200		
DB104S	400	280	400		
DB105S	600	420	600		
DB106S	800	560	800		
DB107S	1000	700	1000		

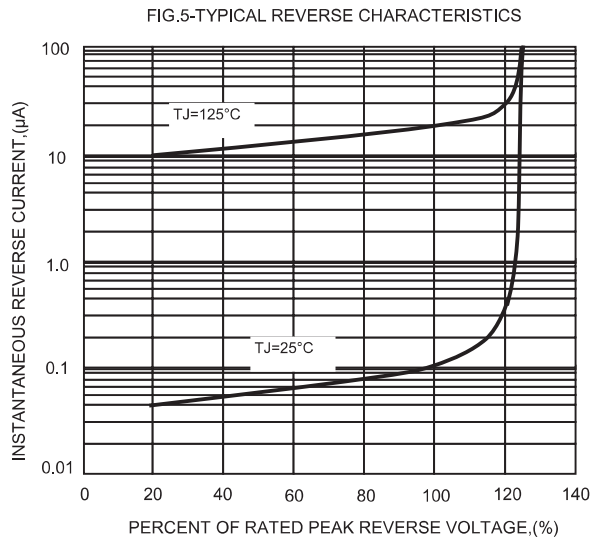
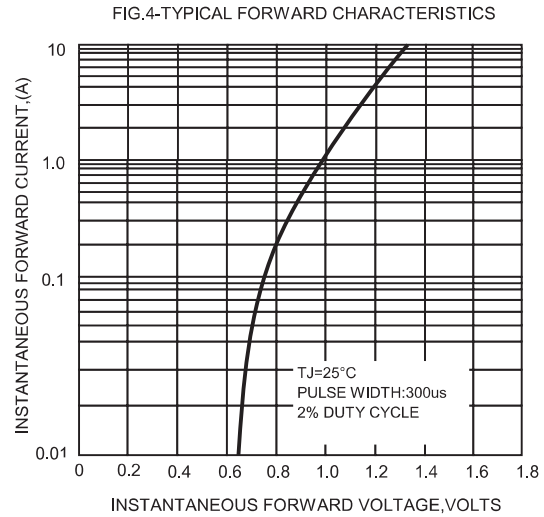
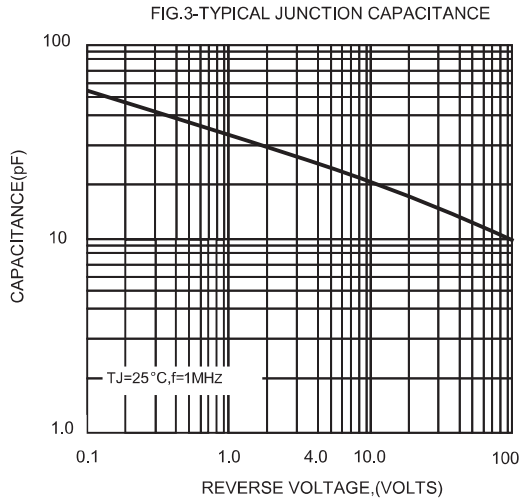
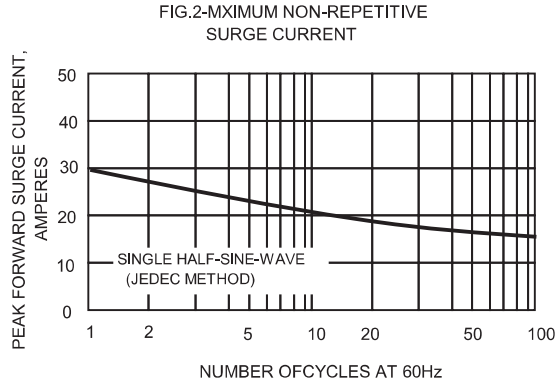
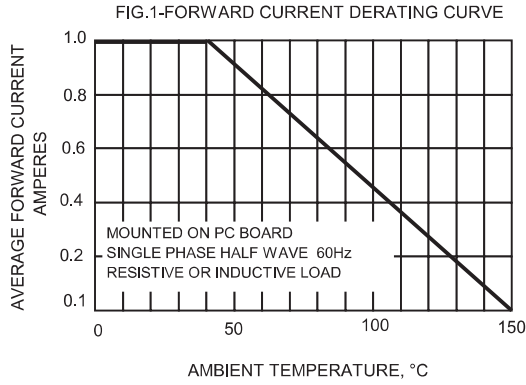
\*1 Repetitive peak reverse voltage

\*2 RMS voltage

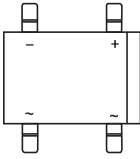
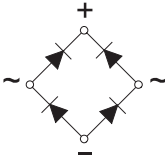
\*3 Continuous reverse voltage

\*4 Maximum forward voltage @  $I_F=1.0\text{A}$

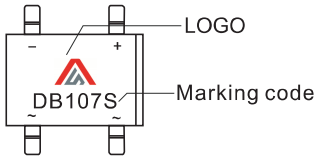
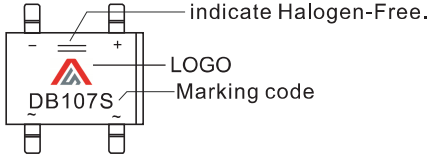
### Rating and characteristic curves (DB101S THRU DB107S)



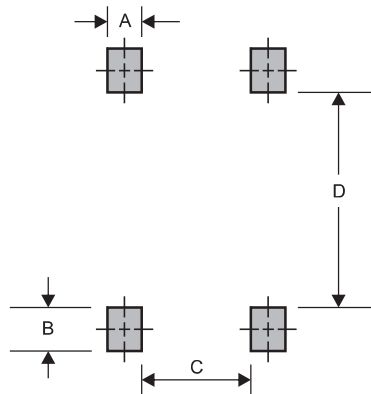
### Pinning information

Simplified outline	Symbol
	

### Marking

Type number	Marking code	Example	
DB101S	DB101S	1. For Halogen Device	2. For Halogen-free Device
DB102S	DB102S		
DB103S	DB103S		
DB104S	DB104S		
DB105S	DB105S		
DB106S	DB106S		
DB107S	DB107S		

### Suggested solder pad layout



Dimensions in inches and (millimeters)

PACKAGE	A	B	C	D
DBS	0.059 (1.50)	0.047 (1.20)	0.157 (4.00)	0.291 (7.40)

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