

DBS Plastic-Encapsulate Bridge Rectifier

Features

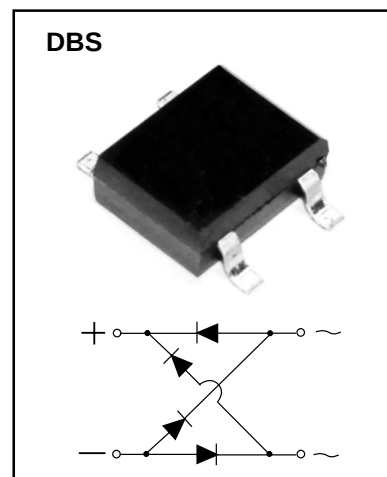
- I_o 2A
- V_{RRM} 50V-1000V
- High surge current capability
- Glass passivated chip
- Polarity: Color band denotes cathode

Applications

- General purpose 1 phase Bridge rectifier applications

Marking

- DB20XS
- X : From 1 To 7



Limiting Values (Absolute Maximum Rating)

Item	Symbol	Unit	Conditions		DB2						
					01S	02S	03S	04S	05S	06S	07S
Repetitive Peak Reverse Voltage	V _{RRM}	V			50	100	200	400	600	800	1000
Maximum RMS Voltage	V _{RMS}	V			35	70	140	280	420	560	700
Average Rectified Output Current	I _o	A	60Hz sine wave, R-load ,Ta=25℃	On glass-epoxi substrate	2.0						
Surge(Non-repetitive)Forward Current	I _{FSM}	A	60Hz sine wave, 1 cycle, T _j =25℃		60						
Current Squared Time	I ² t	A ² S	1ms≤t<8.3ms T _j =25℃ , Rating of per diode		15						
Storage Temperature	T _{stg}	℃			-55 ~+150						
Junction Temperature	T _j	℃			-55 ~+150						

Electrical Characteristics ($T_a=25^{\circ}C$ Unless otherwise specified)

Item	Symbol	Unit	Test Condition	Max
Peak Forward Voltage	V_{FM}	V	$I_{FM}=2.0A$, Pulse measurement, Rating of per diode	1.1
Peak Reverse Current	I_{RRM}	μA	$V_{RM}=V_{RRM}$, Pulse measurement, Rating of per diode	10
Thermal Resistance	$R_{\theta J-A}$	$^{\circ}C/W$	Between junction and ambient, On glass-epoxi substrate	68
	$R_{\theta J-L}$		Between junction and lead	15

Typical Characteristics

FIG1: I_o - T_a Curve

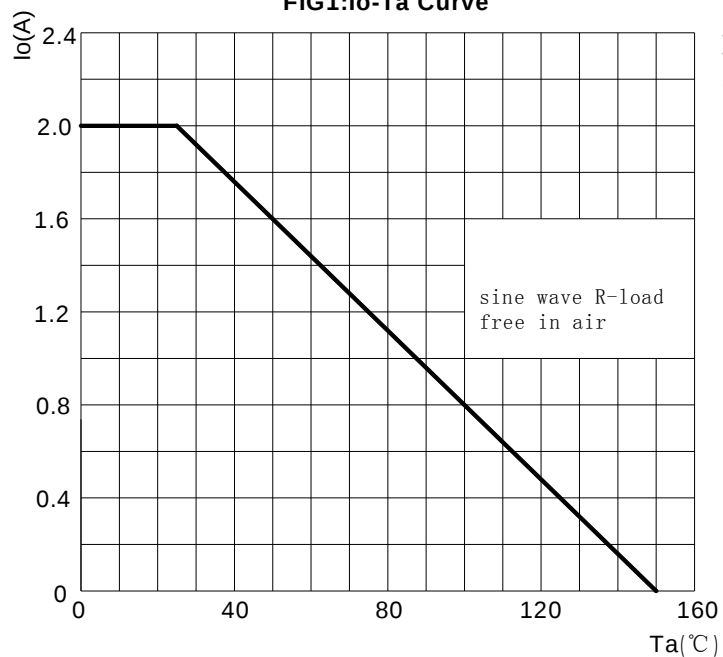


FIG2: Surge Forward Current Capability

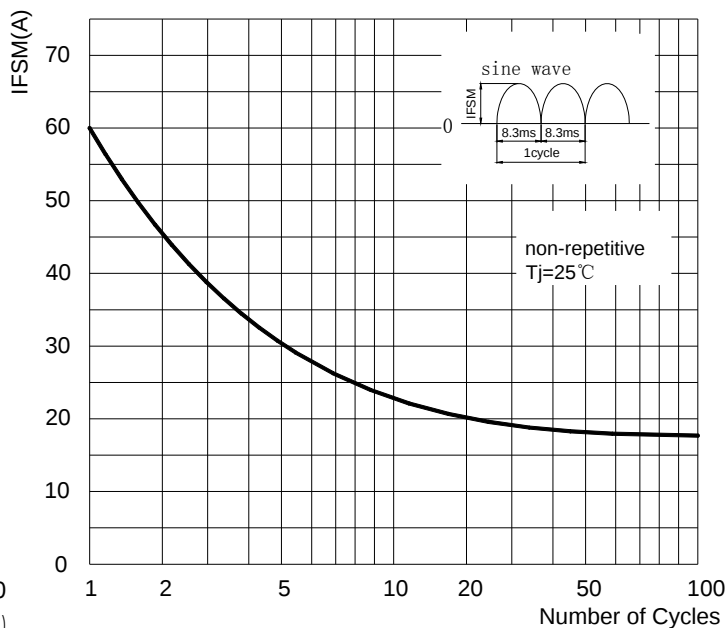


FIG3: Forward Voltage

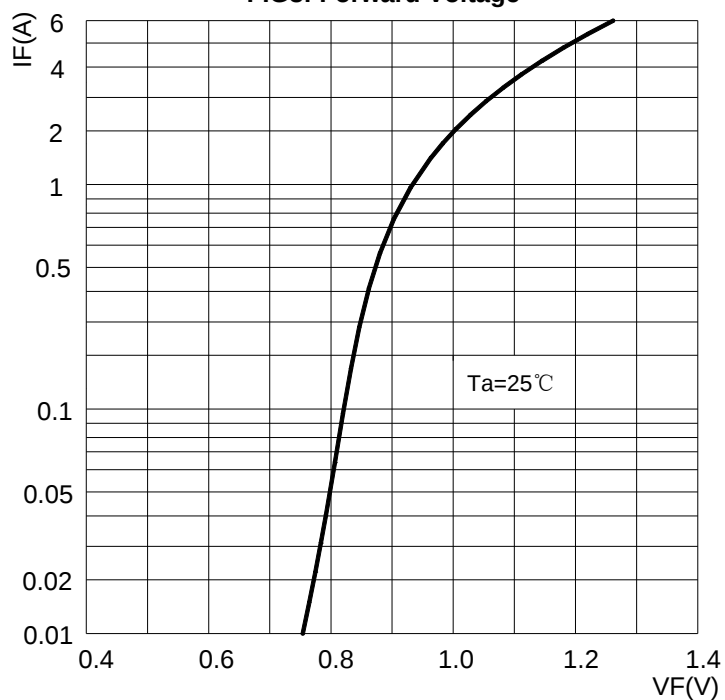
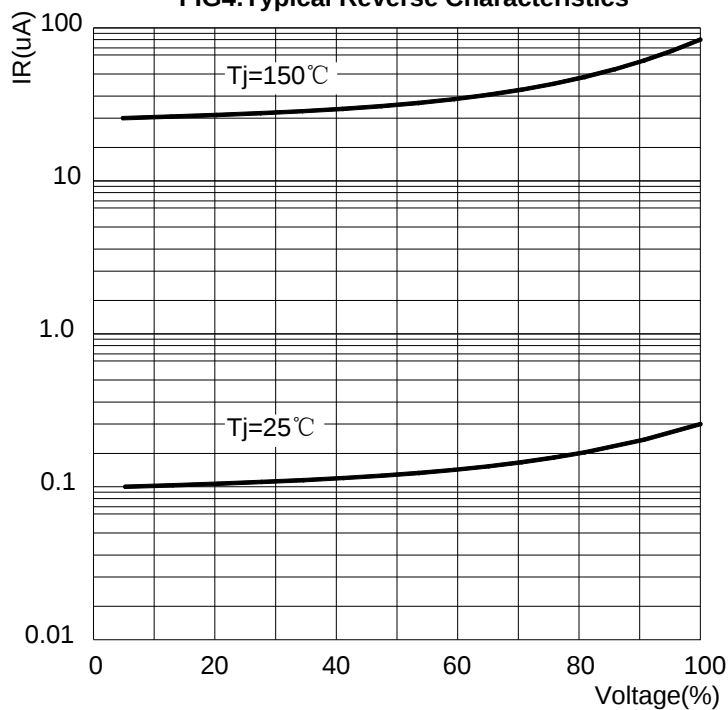
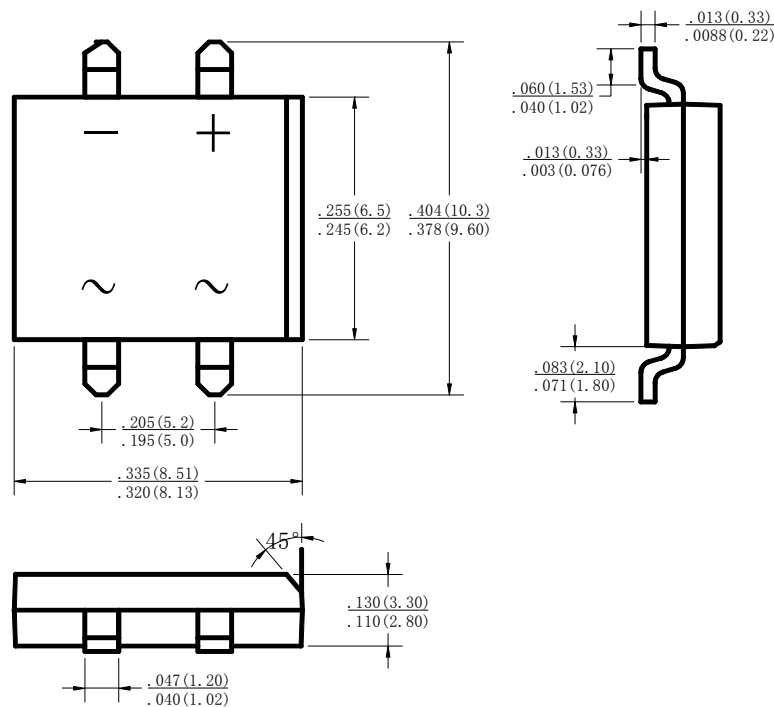


FIG4: Typical Reverse Characteristics

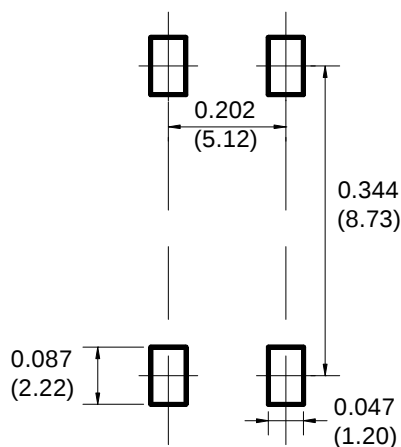


DBS Package Outline Dimensions



Dimensions in inches and (millimeters)

DBS Suggested Pad Layout



Note:

1. Controlling dimension: in millimeters.
2. General tolerance: ± 0.05 mm.
3. The pad layout is for reference purposes only.

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