

DBS Plastic-Encapsulate Bridge Rectifier

Features

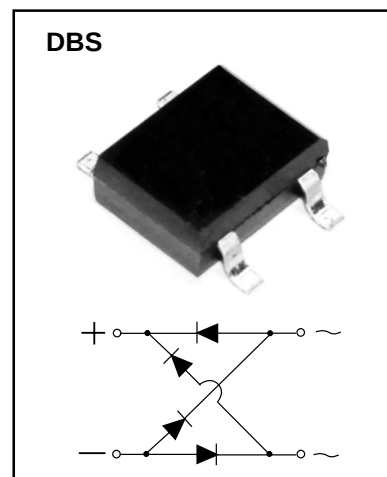
- I_O 1.5A
- V_{RRM} 50V-1000V
- High surge current capability
- Glass passivated chip
- Polarity: Color band denotes cathode

Applications

- General purpose 1 phase Bridge rectifier applications

Marking

- DB15XS
- X : From 1 To 7



Limiting Values (Absolute Maximum Rating)

Item	Symbol	Unit	Conditions	DB15						
				1S	2S	3S	4S	5S	6S	7S
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, $T_a=25^{\circ}\text{C}$	On glass-epoxi substrate		1.5				
Surge(Non-repetitive)Forward Current	I_{FSM}	A	60Hz sine wave, 1 cycle, $T_j=25^{\circ}\text{C}$		60					
Current Squared Time	I^2t	A^2S	$1\text{ms} \leq t < 8.3\text{ms}$ $T_j=25^{\circ}\text{C}$, Rating of per diode		15					
Storage Temperature	T_{stg}	$^{\circ}\text{C}$			-55 ~ +150					
Junction Temperature	T_j	$^{\circ}\text{C}$			-55 ~ +150					

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

Item	Symbol	Unit	Test Condition	Max
Peak Forward Voltage	V_{FM}	V	$I_{FM}=1.5\text{A}$, 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	$R_{\theta J-A}$	$^{\circ}\text{C/W}$	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

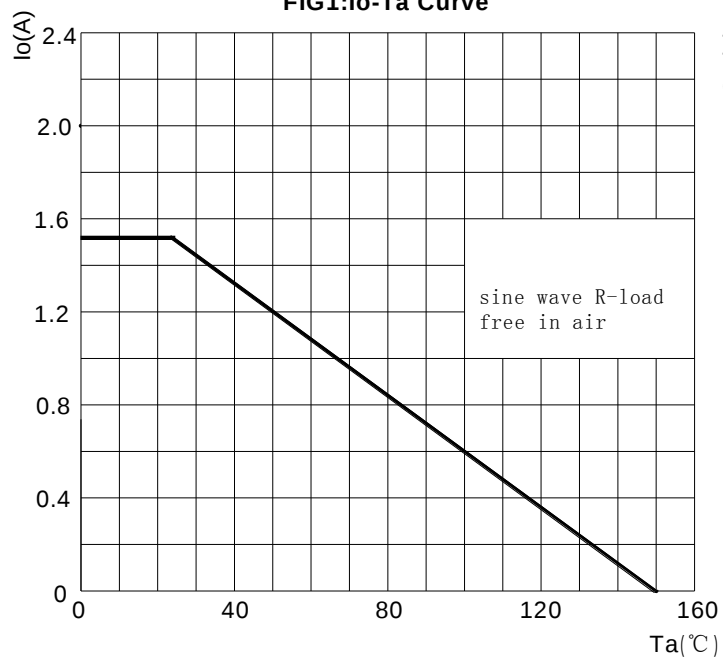


FIG2: Surge Forward Current Capability

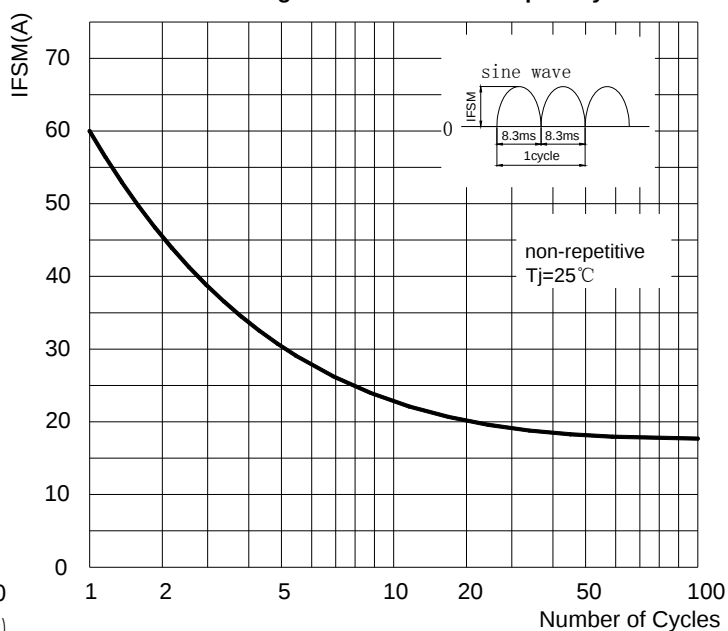


FIG3: Forward Voltage

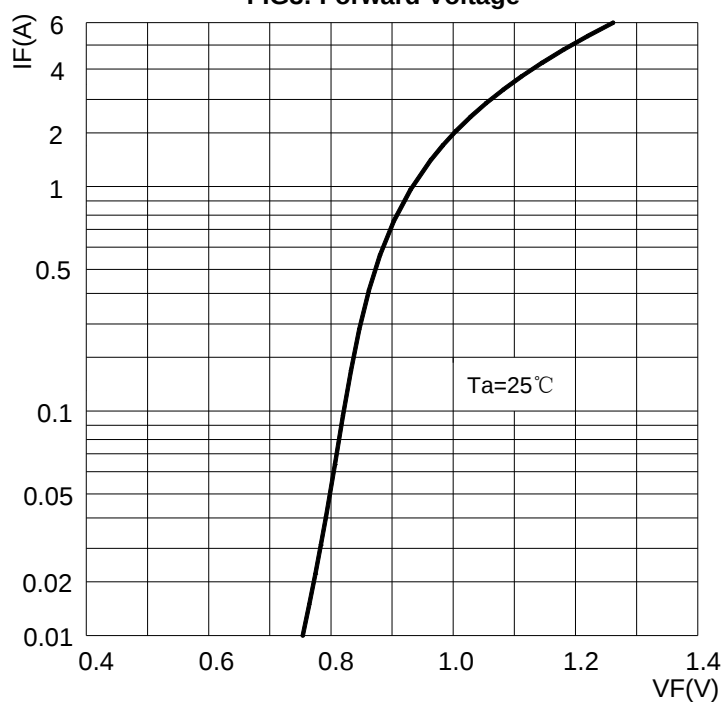
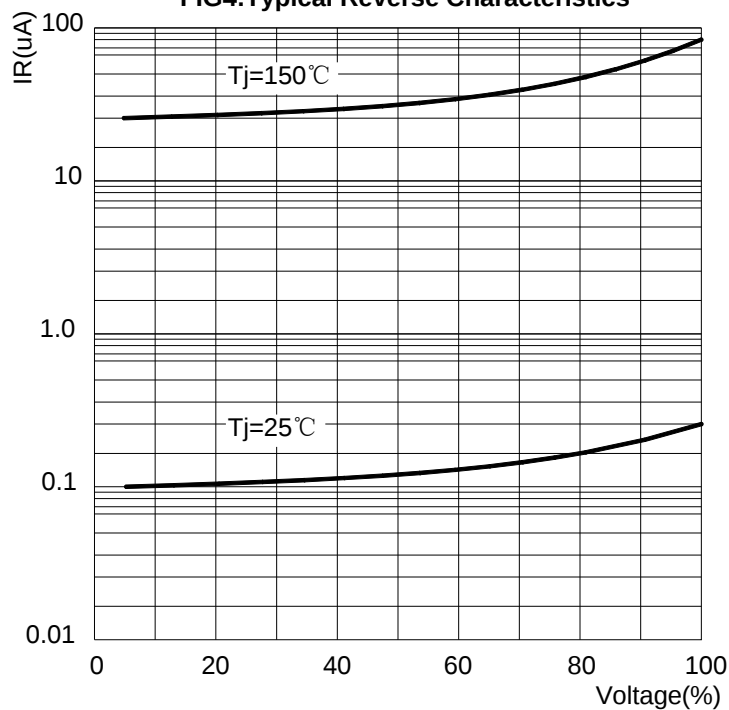
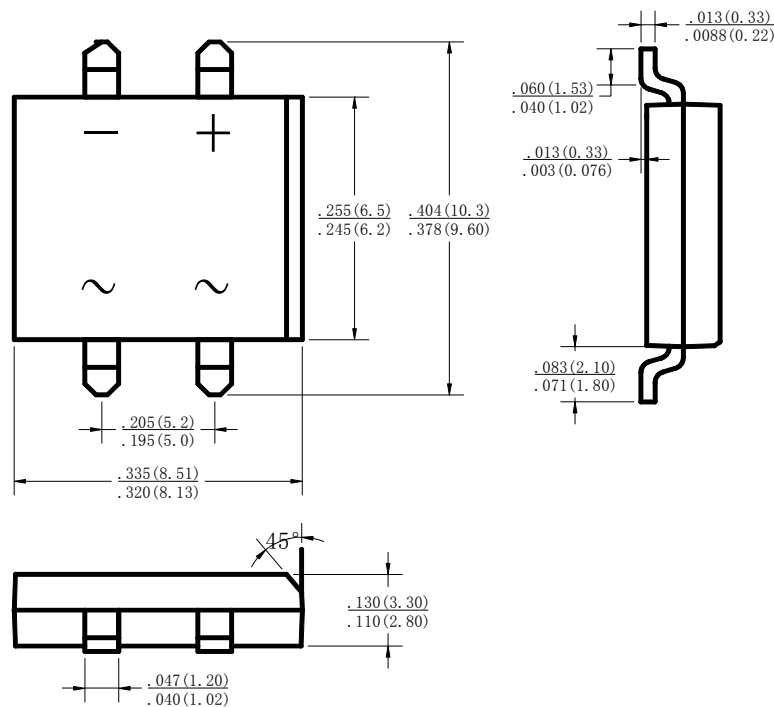


FIG4: Typical Reverse Characteristics

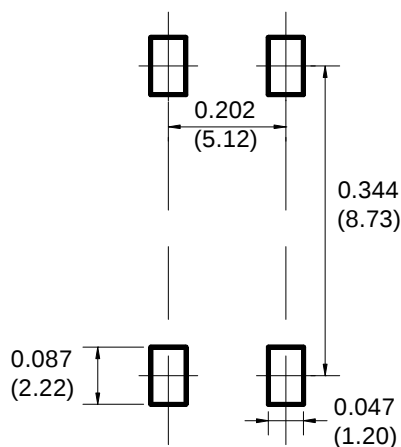


DBS Package Outline Dimensions



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.

NOTICE

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