SZCJ Shenzhen Changji Semiconductor Co., LTD.

DBS Plastic-Encapsulate Bridge Rectifier

DB101S THRU DB107S General Purpose Bridge Rectifier

Features

- $I_{F(AV)}$ 1A
- V_{RRM} 50V-1000V
- High surge current capability
- Glass passivated chip

Applications

- General purpose 1 phase Bridge rectifier applications

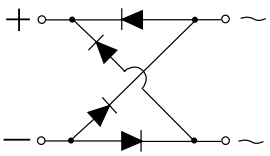
Marking

- DB10XS

  X：From 01 To 7

DBS





Limiting Values (Absolute Maximum Rating)

Item	Symbol	Unit	Conditions	DB1						
				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	60 Hz sine wave, R-load ,Ta=25℃	1.0						
Surge(Non-repetitive)Forward Current	I_{FSM}	A	60H_Z half sine wave, 1 cycle, T_j=25℃	30						
Current Squared Time	I^2t	A^2S	1ms≤t<8.3ms Tj=25℃， Rating of per diode	3.7						
Operation Junction and Storage Temperature Range	T_J,T_{stg}	℃		-55 ~+150						

Electrical Characteristics（T_a=25℃ Unless otherwise specified）

Item	Symbol	Unit	Test Condition	Max
Peak Forward Voltage	V_{FM}	V	I_{FM}=0.5A, Pulse measurement, Rating of per diode	1.05
Peak Reverse Current	I_{RRM}	μA	V_{RM}=V_{RRM} , Pulse measurement, Rating of per diode	10
Thermal Resistance	$R_{\theta J\text{-}A}$	℃/W	Between junction and ambient	68
	$R_{\theta J\text{-}L}$		Between junction and lead	15

Typical Characteristics

FIG.1: FORWARD CURRENT DERATING CURVE

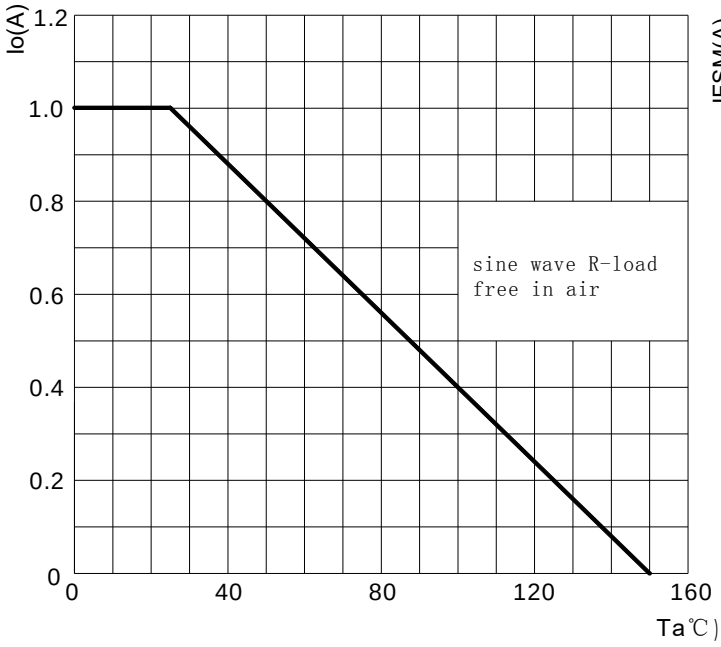


FIG.2: MAXIMUM NON-REPETITIVE FORWARD SURGE CURRENT

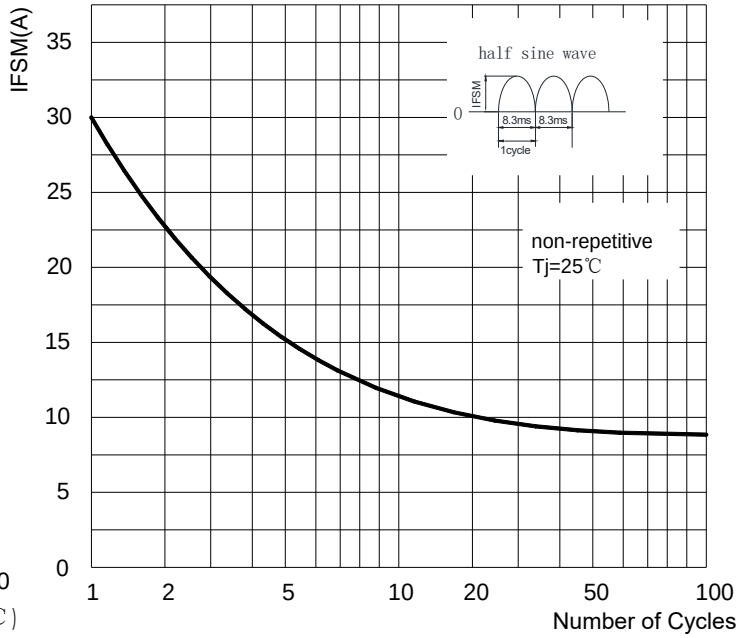


FIG.3: TYPICAL FORWARD CHARACTERISTICS

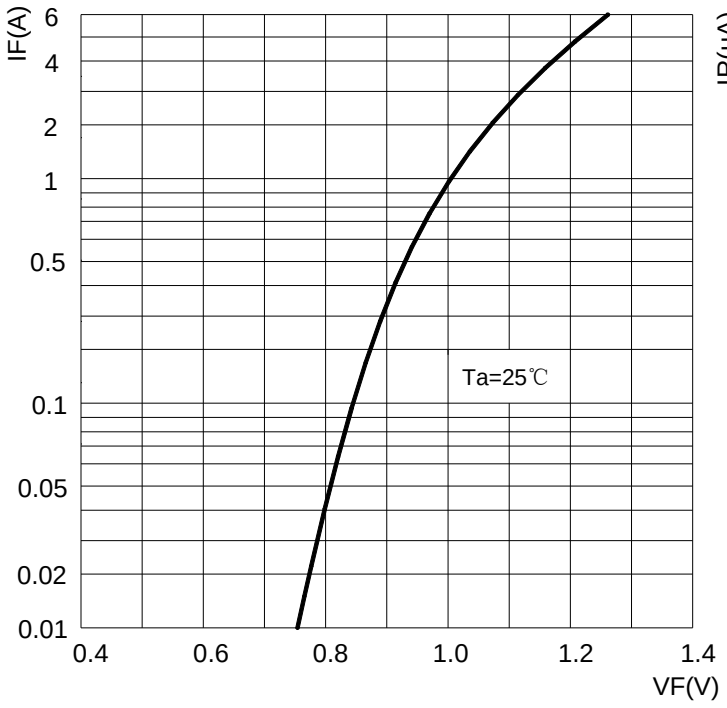
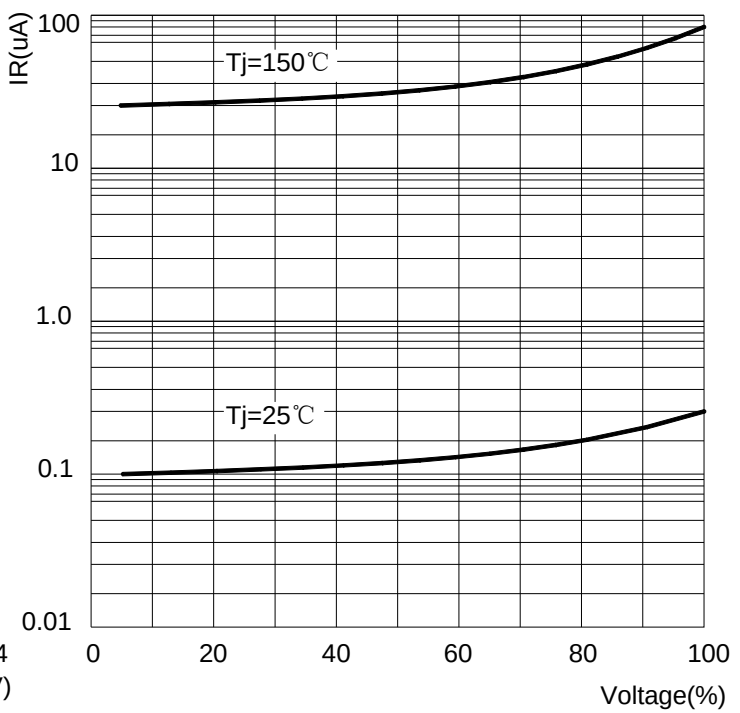
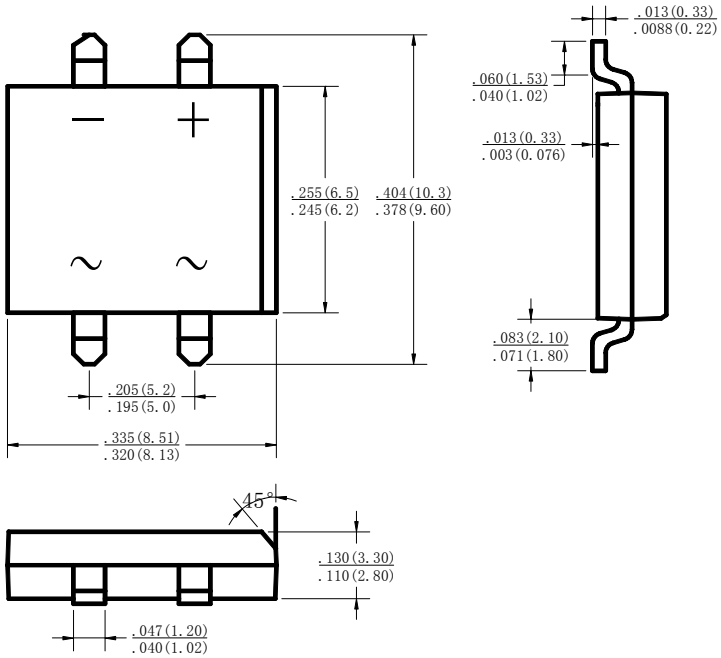


FIG.4:TYPICAL REVERSE CHARACTERISTICS

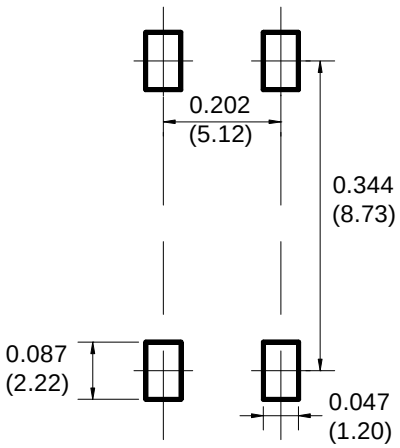


DBS Package Outline Dimensions



Dimensions in inches and (millimeters)

DBS Suggested Pad Layout



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

NOTICE

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