Single Phase 1.0 AMP
Glass Passivated Bridge Rectifiers

Specification

RoHS
欧盟绿色认证

DBS2 THRU DBS10

Voltage Range 200 to 1000 Volts, Current 1.0 Ampere

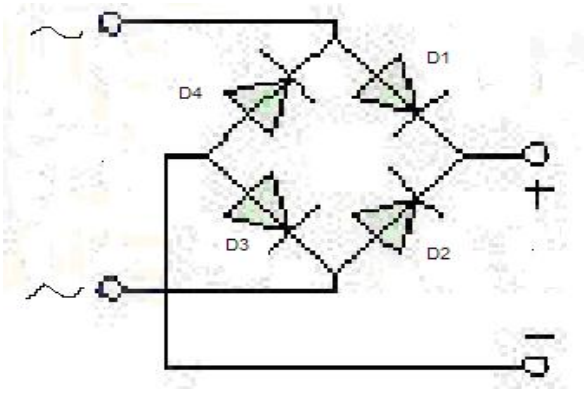
Bridge Rectifier Datasheet

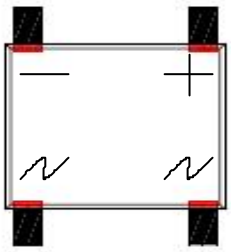
These are powerful bridge rectifiers with enhanced Glass Passivated Junction P-N chips. They are advanced rectifiers designed, tested and guaranteed to withstand a specified level of energy in the forward mode of operation. All of these rectifiers are designed for applications such as,switching convertors. They have the low negative leakage and low forward voltage drop, which allows these types to be operated directly from integrated circuits.

Features:

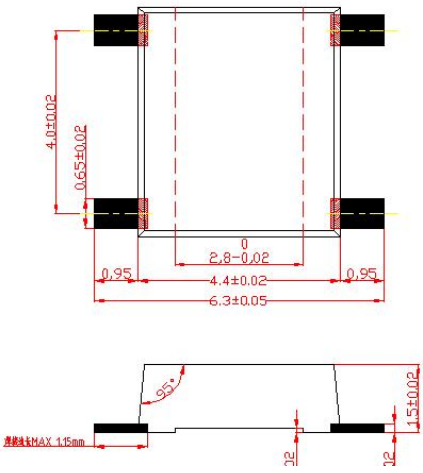
1A , 200 - 1000V
Glass passivated junction
Ideal for printed circuit board
Thin body, flat lead
High temperature soldering guaranteed: 260 ℃ /10seconds/ 0.375”(9.5mm)
Leads solderable per MIL-STD-202,Method 208
High reliability under 125℃ working environment, with the limit temperature 150℃

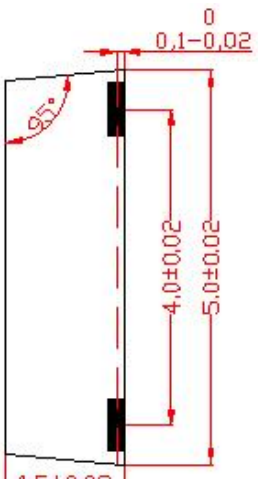
Symbol:





Outline Drawing : Dimensions in inches(millimeters)





DBS2 THRU DBS10

Absolute Maximum Ratings *Tc = 25 , unless otherwise specified*

		Symbol	DBS2	DBS4	DBS6	DBS8	DBS10	Unit
Maximum Recurrent Peak Reverse Voltage		V_{RRM}	200	400	600	800	1000	Volts
Maximum RMS Voltage		V_{RMS}	140	280	420	560	700	Volts
Maximum DC Blocking Voltage		V_{DC}	200	400	600	800	1000	Volts
Maximum Average Forward Rectified Current at Ta = 75℃		I_{AV}	1.0					Amps
Peak Forward Surge Current 8.3ms single half sina-wave superimposed on rated load(JEDEC Method)		I_{FSM}	30.0					Amps
Maximum Instantaneous Forward Voltage at 1.0A		V_F	1.0					Volts
Maximum DC Reverse Current at Rated DC Blocking Voltage	25℃	IR	5.0					uAmps
	75℃		50.0					uAmps
Typical Junction Capacitance(Note)		Cj	15					pF
Typical Thermal Resistance		RθJA	30					℃/W
Operation and Storage Temperature Range		TJ,TSTG	-55 to 105					℃
Note:Measured at 1MHz applied reverse voltage of 4.0 volts								

Typical Performance Curves *Tc = 25 , unless otherwise specified*

FIG.1- MAXIMUM FORWARD CURRENT DERATING CURVE

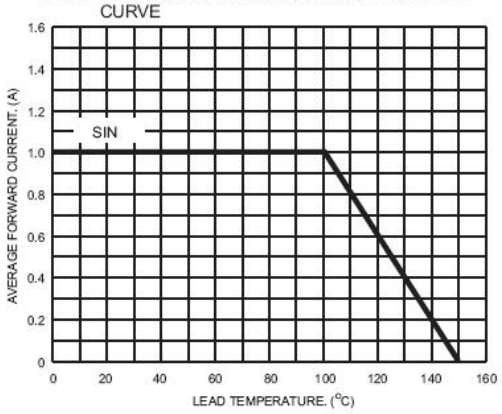
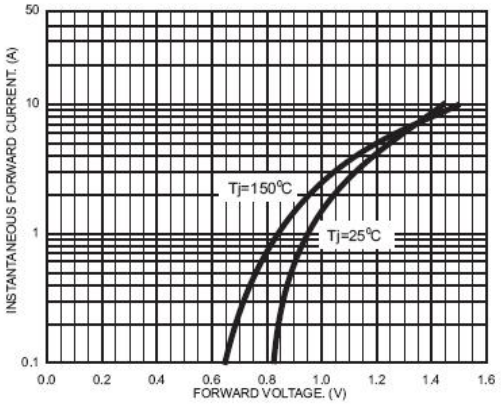
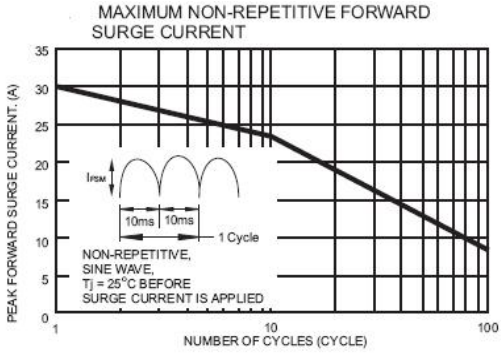


FIG.2- TYPICAL FORWARD CHARACTERISTICS



MAXIMUM NON-REPETITIVE FORWARD SURGE CURRENT



Quality Inspection

Based on MIL-STD-105E LEVEL II , set the acceptable level as below.

Item	Critical	Major	Minor
AQL(%)	0.01	0.10(Electrical) 0.25(Physical)	1.00

Signification , Storage and Shipment

1. The signification on the bridge rectifier body can be determined by customer. It will be 100% followed up as the instruction from customer.

2. The parts will be packed in the boxes, and the quantity in one box can be offered by customer. The boxes will be delivered by internal express company.

3. Please keep the parts being stored in the environment with humidity lower than 75%.