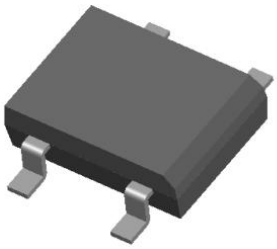
DB201S THRU DB207S

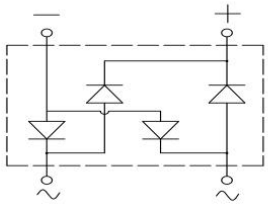
VOLTAGE RANGE 50 to 1000 Volts
CURRENT 2.0 Ampere

RoHS COMPLIANT

Features



- Glass passivated chip
- Low forward voltage drop
- Low leakage current
- High forward surge capability
- High temperature soldering: 260℃/10S at terminals
- Component in accordance to ROHS 2002/95/1 and WEEE 2002/96/EC



Mechanical Data

- Case: Molded plastic body
- Molding compound meets UL 94 V-0 flammability rating, Halogen-free, RoHS-compliant, and commercial grade
- Polarity: Molded on body
- Weight: 0.02 ounce, 0.40 grams

Maximum Ratings and Electrical Characteristics

- Ratings at 25℃ ambient temperature unless otherwise specified
- Single Phase, half wave, 60Hz, resistive or inductive load
- For capacitive load derate current by 20%

TYPE NUMBER		SYMBOLS	DB 201S	DB 202S	DB 203S	DB 204S	DB 205S	DB 206S	DB 207S	UNITS
Maximum Repetitive Peak Reverse Voltage		V_{RRM}	50	100	200	400	600	800	1000	Volts
Maximum RMS Voltage		V_{RMS}	35	70	140	280	420	560	700	Volts
Maximum DC Blocking Voltage		V_{DC}	50	100	200	400	600	800	1000	Volts
Maximum Average Forward Rectified Current T_L=100℃		$I_{(AV)}$	2.0							Amp
Peak Forward Surge Current 8.3mS single half sine wave superimposed on rated load (JEDEC method)		I_{FSM}	60							Amps
Maximum Instantaneous Forward Voltage @ 2.0A		V_F	1.1							Volts
Rating for Fusing (t＜8.3ms)		I^2t	14.95							A^2s
Maximum DC Reverse Current at Rated DC Blocking Voltage	T_A = 25℃	I_R	5.0							μA
	T_A = 125℃		100							
Typical Junction Capacitance (Note 1)		C_J	30							pF
Typical Thermal Resistance (Note 2)		$R_{\theta JA}$	40							℃/W
		$R_{\theta JL}$	15							
Operating Junction Temperature Range		T_J, T_{STG}	(-55 to +150)							℃

Notes:

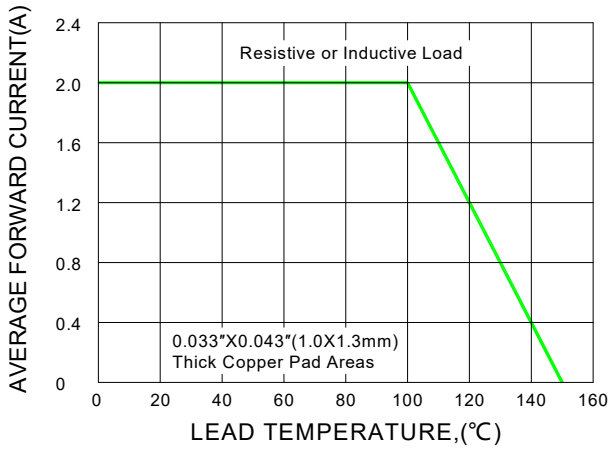
1. Measured at 1.0MHz and applied reverse voltage of 4.0 Volts.
2. Thermal Resistance test performed in accordance with JESD-51. Unit mounted on 15mm*12mm*1.6mm AL pad attach 195mm*110mm*10mm steel plate.
3. The typical data above is for reference only.

DB201S THRU DB207S

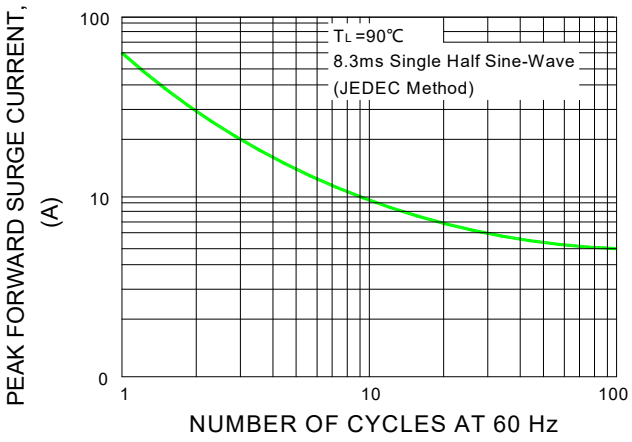
VOLTAGE RANGE **50 to 1000 Volts**
CURRENT **2.0 Ampere**

Ratings and Characteristic Curves (T_A=25℃ unless otherwise noted)

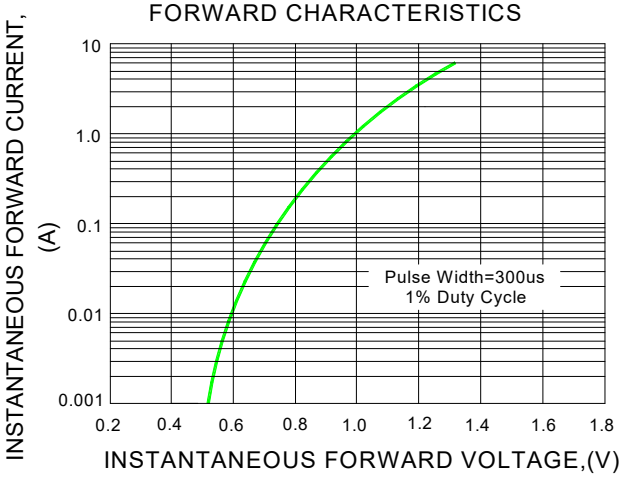
F1G.1-FORWARD CURRENT DERATING CURVE



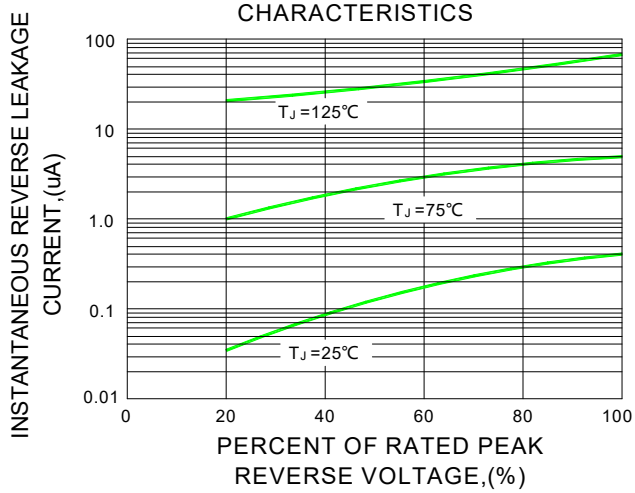
F1G.2-MAXIMUM NON-REPETITIVE PEAK FORWARD SURGE CURRENT



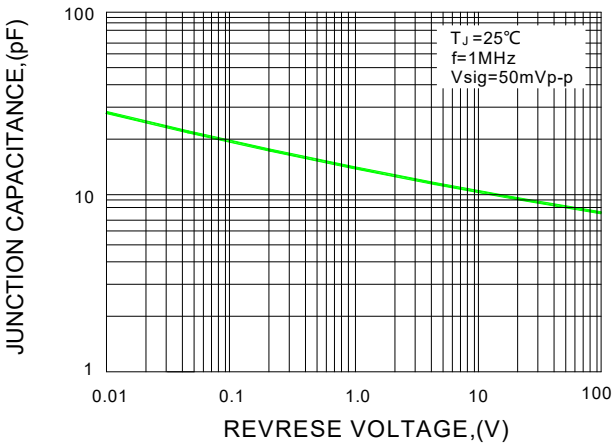
F1G.3-TYPICAL INSTANTANEOUS FORWARD CHARACTERISTICS



F1G.4-TYPICAL REVERSE CHARACTERISTICS



F1G.5-TYPICAL JUNCTION CAPACITANCE

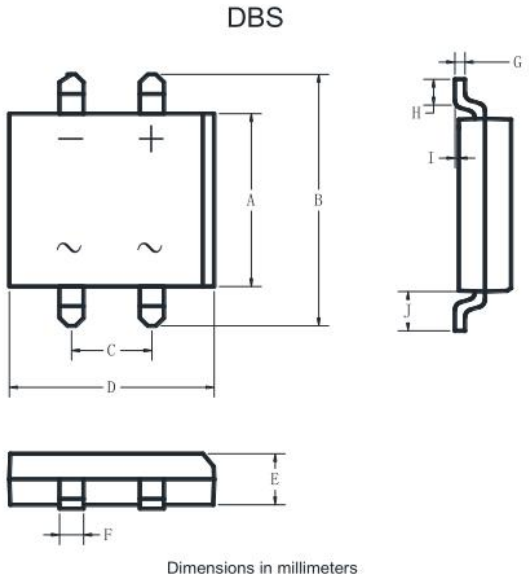


DB201S THRU DB207S

VOLTAGE RANGE **50 to 1000 Volts**
CURRENT **2.0 Ampere**

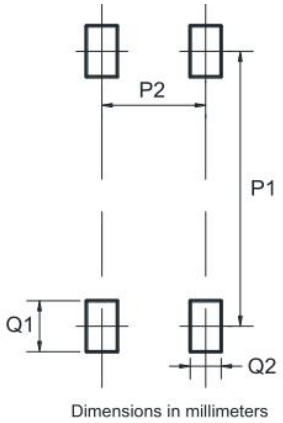
Package Outline Dimensions in inches (millimeters)

- Outline Dimensions



Dim	mm		in	
	min	max	min	max
A	6.20	6.50	.244	.256
B	9.60	10.30	.378	.406
C	5.00	5.20	.197	.205
D	8.13	8.51	.320	.335
E	2.38	2.45	.093	.096
F	0.98	1.13	.038	.044
G	0.18	0.23	.007	.009
H	1.02	1.53	.040	.060
I	0.05	0.20	.001	.007
J	1.80	2.10	.070	.082

- Suggested pad layout



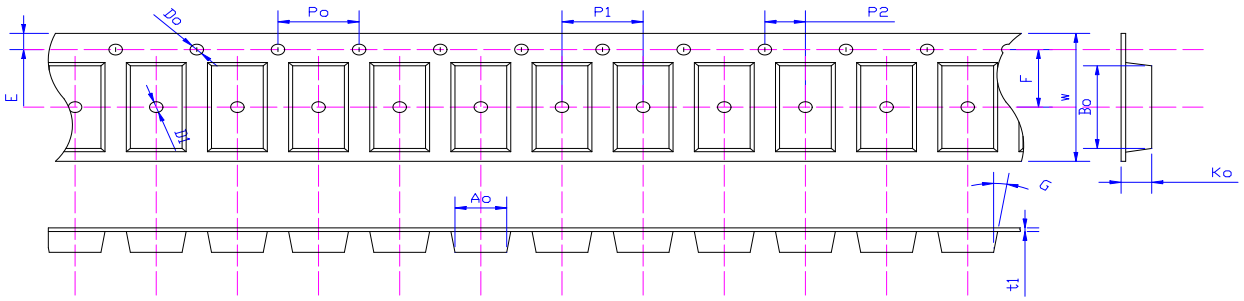
Dim	Min
P1	8.73
P2	5.12
Q1	2.22
Q2	1.2

DB201S THRU DB207S

VOLTAGE RANGE **50 to 1000 Volts**
CURRENT **2.0 Ampere**

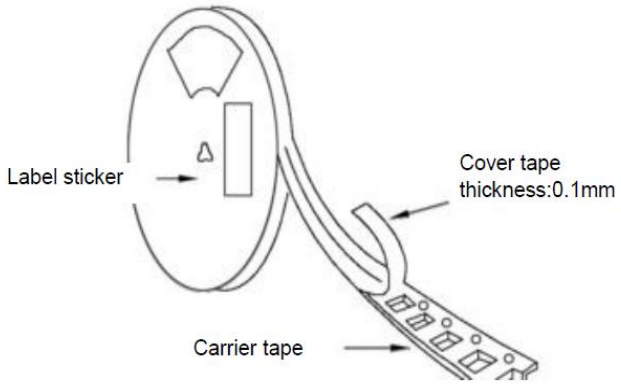
Packing Requirments

- PS black anti-static carrier tape packing



Specifications	Ao	Bo	Ko	Po	W	t1
DBS	8.64±0.10	9.85±0.10	2.60±0.10	4.00±0.1	16.0±0.10	0.30±0.02

- 13 "antistatic plastic reel

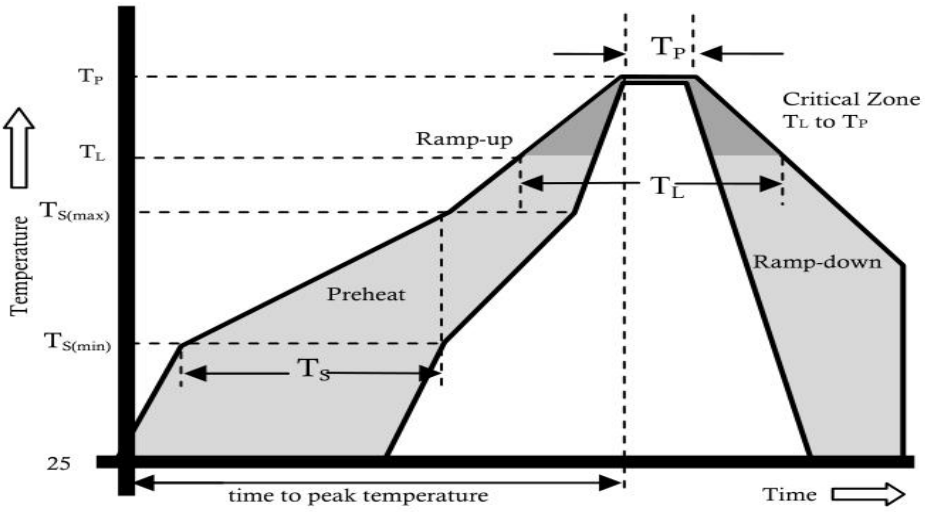


DEVICE TYPE	13" Reel			
	Q'TY/REEL(pcs)	REEL/BOX	BOX/CARTOON	Q'TY/CARTON(pcs)
DBS	3000	2	8	48000

DB201S THRU DB207S

VOLTAGE RANGE **50 to 1000 Volts**
CURRENT **2.0 Ampere**

Reflow Profile



Reflow Condition		Pb-Free Assembly
Pre Heat	Temperature Min.	+150°C
	Temperature Max.	+200°C
	Time(Min to Max)	60-180 secs.
Average ramp up rate(Liquidus Temp(T_L) to peak)		3°C/sec. Max.
T_S(max) to T_L - Ramp-up Rate		3°C/sec. Max.
Reflow	Temperature (T_L)(Liquidus)	+217°C
	Temperature (T_L)	60-150 secs.
Peak Temp (T_P)		+(260+0/-5)°C
Time within 5°C of actual Peak Temp (T_P)		25 secs.
Ramp-down Rate		6°C/sec. Max.
Time 25°C to peak Temp (T_P)		8 min. Max.
Do not exceed		+260°C

DB201S THRU DB207S

VOLTAGE RANGE **50 to 1000 Volts**
CURRENT **2.0 Ampere**

Disclaimer

The information presented in this document is for reference only. Chongqing changjie Electronic Technology Co., Ltd. reserves the right to make changes without notice for the specification of the products displayed herein to improve reliability, function or design or otherwise.

The product listed herein is designed to be used with ordinary electronic equipment or devices, and not designed to be used with equipment or devices which require high level of reliability and the malfunction of with would directly endanger human life (such as medical instruments, transportation equipment, aerospace machinery, nuclear-reactor controllers, fuel controllers and other safety devices), Changjie or anyone on its behalf, assumes no responsibility or liability for any damages resulting from such improper use of sale.

This publication supersedes & replaces all information previously supplied. For additional information, please visit our website http:// www.czlangjie.com , or consult your nearest Langjie’s sales office for further assistance.

X-ON Electronics

Largest Supplier of Electrical and Electronic Components

Click to view similar products for Bridge Rectifiers ***category:***

Click to view products by LangJie ***manufacturer:***

Other Similar products are found below :

MB252 MB356G MB358G GBJ1504-BP GBU10B-BP GBU15K-BP GBU4A-BP GBU4D-BP DB101-BP DF01 DF10SA-E345 KBPC50-10S RS405GL-BP GBJ1502-BP GBU6M TB102M MB1510 MB86 TL401G MDA920A2 TU602 TU810 MP5010W-BP MP501W-BP MP502-BP KBPC25-02 VBO160-12NO7 VS-110MT120KPBF VS-60MT80KPBF DB105-BP DF1510S VS-40MT160PAPBF GBU4G-BP GSIB15A80-E3/45 DB104-BP D3SB60 TB354 GBJ2504-BP 26MB100A B1S-G VS-40MT160KPBF VUO162-16NO7 ABS10-G GBU6B-BP GBJ1508-BP BR5010-G ABS6-G B125C800G-E4/51 MSB15MH-13 LBS10-13