重庆平伟实业股份有限公司
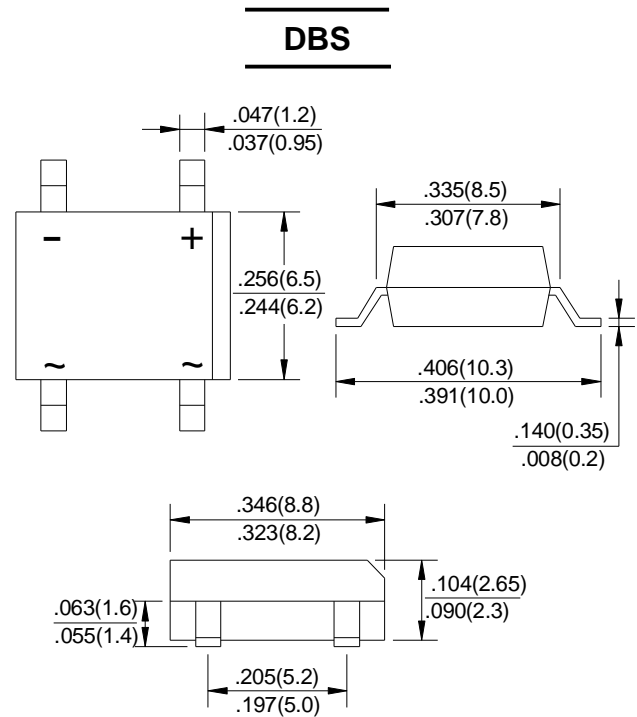## CHONGQING PINGWEI ENTERPRISE CO.,LTD

DB201S thru DB207S

| SURFACE MOUNT GLASS PASSIVATED BRIDGE RECTIFIERS | REVERSE VOLTAGE - **50** to **1000**Volts
FORWARD CURRENT - **2.0** Amperes |

FEATURES

● Rating to 1000V PRV

● Ideal for printed circuit board

● Low forward voltage drop,high current capability

● Reliable low cost construction utilizing molded plastic technique results in inexpensive product

● The plastic material has UL flammability classification 94V-0

MECHANICAL DATA

● Polarit: As marked on Body

● Weight: 0.02 ounces,0.38 grams

● Mounting position: Any

DBS

.047(1.2)
.037(0.95)

.335(8.5)
.307(7.8)

.256(6.5)
.244(6.2)

.406(10.3)
.391(10.0)

.140(0.35)
.008(0.2)

.346(8.8)
.323(8.2)

.104(2.65)
.090(2.3)

.063(1.6)
.055(1.4)

.205(5.2)
.197(5.0)

Dimensions in inches and (millimeters)

MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Rating at 25℃ ambient temperature unless otherwise specified.

Single phase, half wave ,60Hz, resistive or inductive load.

For capacitive load, derate current by 20%

CHARACTERISTICS	SYMBOL	DB201S	DB202S	DB203S	DB204S	DB205S	DB206S	DB207S	UNIT
Maximum Recurrent Peak Reverse Voltage	V_{RRM}	50	100	200	400	600	800	1000	V
Maximum RMS Voltage	V_{RMS}	35	70	140	280	420	560	700	V
Maximum DC Blocking Voltage	V_{DC}	50	100	200	400	600	800	1000	V
Maximum Average Forward Rectified Current @T_A=40℃	$I_{(AV)}$	2.0							A
Peak Forward Surge Current 8.3ms Single Half Sine-Wave Super Imposed on Rated Load (JEDEC .Method)	I_{FSM}	60							A
Maximum Forward Voltage at 2.0A DC	V_F	1.1							V
Maximum DC Reverse Current @T_J=25℃ at Rated DC Blocking Voltage @T_J=125℃	I_R	10 500							µA
I^2t Rating for Fusing (t<8.3ms)	I^2t	10.4							A^2s
Typical Junction capacitance Per Element(Note1)	C_J	25							pF
Typical Thermal Resistance (Note2)	$R_{\theta JA}$	40							℃/W
Operating Temperature Range	T_J	-55 to +150							℃
Storage Temperature Range	T_{STG}	-55 to +150							℃

Note:1.Measured at 1.0MHz and applied reverse voltage of 4.0V DC

2.Thermal resistance from junction to ambient mounted on P.C.B with 0.5*0.5"(13*13mm) copper pads.

FIG.1-DERATING CURVE FOR OUTPUT RECTIFIED CURRENT

SINGLE PHASE HALF WAVE 60Hz
RESISTIVE OR INDUCTIVE LOAD

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

SINGLE SINE-WAVE
JEDEC METHOD

FIG.3-TYPICAL JUNCTION CAPACITANCE

$T_J=25°C, f=1MHZ$

FIG.4-TYPICAL FORWARD CHARACTERISTICS

$T_J=25°C$
PULSE WIDTH:300us
2% DUTY CYCLE

FIG.5-TYPICAL REVERSE CHARACTERISTICS

$T_J=125°C$

$T_J=25°C$