

DB201 THRU DB207

SINGLE PHASE 2.0AMP SURFACE MOUNT GLASS PASSIVATED BRIDGE RECTIFIER

Features

· Glass passivated die construction

· Low forward voltage drop

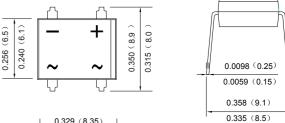
· High current capability

· High surge current capability

· Designed for surface mount application

• Plastic material-UL flammability 94V-0

DB-M



Mechanical Data

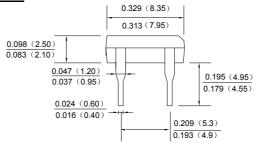
• Case: DB-M, molded plastic

 Terminals: plated leads solderable per MIL-STD-202, Method 208

· Polarity: as marked on case

Mounting position: AnyMarking: type number

• Lead Free: For RoHS / Lead Free Version



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%.

TYPE NUMBER	SYMBOL	DB201	DB202	DB203	DB204	DB205	DB206	DB207	UNITS
Peak Repetitive Reverse Voltage Working Peak Reverse Voltage DC Blocking Voltage	VRRM	50	100	200	400	600	800	1000	V
	VRWM								
	VDC								
RMS Reverse Voltage	VRMS	35	70	140	280	420	560	700	V
Average Rectified Output Current (Note 1)@Tc=100℃	IF(AV)	2.0							Α
Non-Repetitive Peak Forward Surge Current 8.3ms Single half sine-wave superimposed on rated load (JEDEC Method)	Ігѕм	60							А
I ² t Rating for Fusing (t < 8.3ms)	l ² t	14.94						A ² s	
Forward Voltage per element @IF=2.0A	VFM	1.0							V
Peak Reverse Current @T _A =25℃ At Rated DC Blocking Voltage @T _A =125℃	lR	5.0 200							uA
Typical Junction Capacitance per leg (Note 2)	Сл	25							pF
Typical Thermal Resistance per leg	Røja	40							°C/W
	Røjl	15							
Operating and Storage Temperature Range	TJ,TSTG	-55to+150							$^{\circ}\!\mathbb{C}$

Note:1. Mounted on glass epoxy PC board with 1.3mm² solder pad. 2.Measured at 1.0 MHz and applied reverse voltage of 4.0V D.C.

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Fig. 1 Output Current Derating Curve

(A)

1.5

1.5

0

0

40

80

120

160

T_C, CASE TEMPERATURE (°C)

Fig. 3 Maximum Peak Forward Surge Current (per leg)

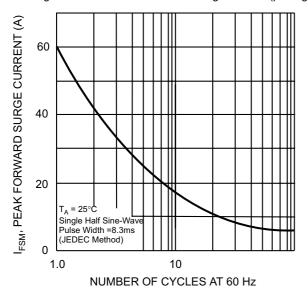
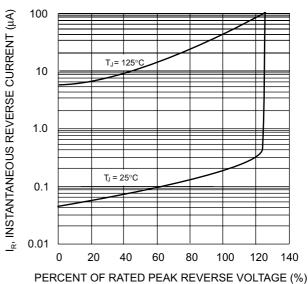


Fig. 4 Typical Reverse Characteristics (per element)



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