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# SDB201 THRU SDB207

2 Amp Single Phase Glass Passivated Bridge Rectifier 50 to 1000 Volts

## **Features**

- Surface Mount Package
- Glass Passivated Diode Construction
- High Surge Current Capability
- Case Material: Molded Plastic. UL Flammability Classification Rating 94V-0 and MSL Rating 1
- Lead Free Finish/RoHS Compliant (NOTE 1)("P" Suffix designates RoHS Compliant. See ordering information)

## **Maximum Ratings**

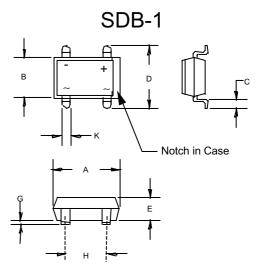
- Operating Temperature: -55°C to +150°C
   Storage Temperature: -55°C to +150°C
- UL Recognized File # E165989

MCC		Maximum	Maximum	Maximum
Part	Device	Recurrent	RMS	DC
Number	Marking	Peak Reverse	Voltage	Blocking
		Voltage		Voltage
SDB201	SDB201	50V	35V	50V
SDB202	SDB202	100V	70V	100V
SDB203	SDB203	200V	140V	200V
SDB204	SDB204	400V	280V	400V
SDB205	SDB205	600V	420V	600V
SDB206	SDB206	800V	560V	800V
SDB207	SDB207	1000V	700V	1000V

### Electrical Characteristics @ 25°C Unless Otherwise Specified

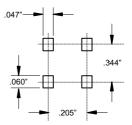
Average Forward Current	I <sub>F(AV)</sub>	2.0 A	T <sub>A</sub> = 40°C
Peak Forward Surge Current	I <sub>FSM</sub>	60A	8.3ms, half sine
Maximum Instantaneous Forward Voltage	V <sub>F</sub>	1.2V	I <sub>F</sub> = 2.0A; T <sub>A</sub> = 25°C
Maximum DC Reverse Current At Rated DC Blocking Voltage	I <sub>R</sub>	10μA 0.5mA	$T_J = 25^{\circ}C$ $T_J = 125^{\circ}C$
Typical Junction Capacitance	С	25pF	Measured at 1.0MHz, V <sub>R</sub> =4.0V
Rating For Fusing	l <sup>2</sup> t	10A <sup>2</sup> s	t<8.35ms

Notes: 1. High Temperature Solder Exemption Applied, see EU Directive Annex Notes 7



DIMENSIONS							
	INCHES		MM				
DIM	MIN	MAX	MIN	MAX	NOTE		
Α	.316	.335	8.05	8.51			
В	.245	.255	6.20	6.50			
С	.040	.060	1.02	1.50			
D	.360	.410	9.40	10.4			
Е	.102	.130	2.60	3.30			
Ð	.003	.013	.076	.330			
Τ	.195	.205	5.00	5.20			
Κ	.038	.047	1.00	1.20			

### Suggested Solder Pad Layout

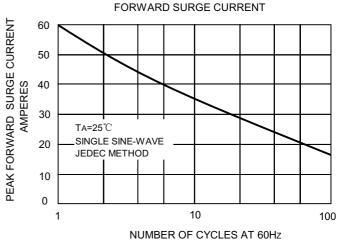


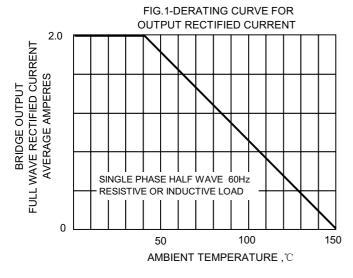
## SDB201 thru SDB207



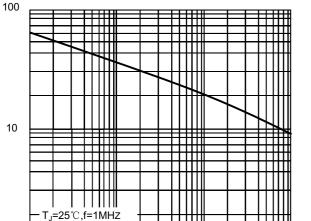
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FIG.2-MAXIMUM NON-REPETITIVE PEAK
FORWARD SURGE CURRENT





#### FIG.3-TYPICAL JUNCTION CAPACITANCE



4.0

REVERSE VOLTAGE, (VOLTS)

10.0

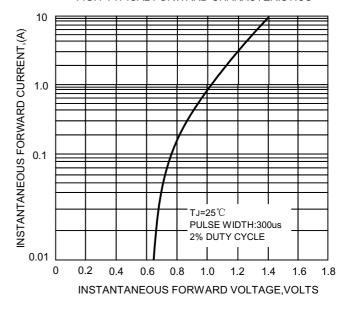
1.0

CAPACITANCE(pF)

1.0

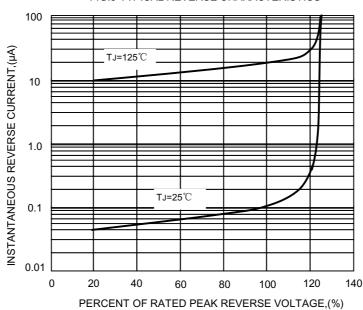
0.1

FIG.4-TYPICAL FORWARD CHARACTERISTICS





100





## **Ordering Information**

Device	Packing
(Part Number)-TP	Tape&Reel1.5Kpcs/Reel
(Part Number)-BP	Bulk; 5K/Box

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