



### **GLASS PASSIVATED SUPER FAST** SILICON SURFACE MOUNT BRIDGE RECTIFIER VOLTAGE RANGE 50 to 400 Volts CURRENT 1.0 Ampere

#### **FEATURES**

- \* Surge overload rating 40 amperes peak
- \* Ideal for printed circuit board
- \* Reliable low cost construction utilizing molded
- \* Glass passivated device
- \* Polarity symbols molded on body
- \* Mounting position: Any
- \* Weight: 1.0 gram

### **MECHANICAL DATA**

\* Epoxy: Device has UL flammability classification 94V-O



Dimensions in inches and (millimeters)

#### MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS Ratings at 25 °C ambient temperature unless otherwise specified.

Single phase, half wave, 60 Hz, resistive or inductive load. For capacitive load, derate current by 20%.

MAXIMUM RATINGS (At T <sub>A</sub> = 25°C unless otherwise noted)								
RATINGS	SYMBOL	EDB101S	EDB102S	EDB103S	EDB104S	EDB105S	EDB106S	UNITS
Maximum Recurrent Peak Reverse Voltage	V <sub>RRM</sub>	50	100	150	200	300	400	Volts
Maximum RMS Bridge Input Voltage	V <sub>RMS</sub>	35	70	105	140	210	280	Volts
Maximum DC Blocking Voltage	V <sub>DC</sub>	50	100	150	200	300	400	Volts
Maximum Average Forward Output Current at T <sub>A</sub> = 55°C	I <sub>O</sub>	1.0						Amps
Peak Forward Surge Current 8.3 ms single half sine-wave superimposed on rated load (JEDEC method)	I <sub>FSM</sub>	30						Amps
Typical Thermal Resistance (Note 3)	R <sub>θJA</sub>	38						⁰C/W
	RθJL	12						
Typical Junction Capacitance (Note 2)	CJ	15 10			10	pF		
Operating and Storage Temperature Range	TJ, TSTG	-55 to + 150						٥C

ELECTRICAL CHARACTERISTICS (At T<sub>A</sub> = 25°C unless otherwise noted)

CHARACTERISTICS		SYMBOL	EDB101S	EDB102S	EDB103S	EDB104S	EDB105S	EDB106S	UNITS
Maximum Forward Voltage at 1.0A DC		V <sub>F</sub>	1.05 1.35				35	Volts	
Maximum Reverse Current at Rated	@T <sub>A</sub> = 25°C	la la	5.0						uAmps
DC Blocking Voltage per element	@T <sub>A</sub> = 100°C	'R	100						uAmps
Maximum Reverse Recovery Time (Note 1)		trr	50					nSec	
vote: 1.Test Conditions: IF=0.5A,IR=-1.0A,IRR=-0.25A.							2007-08		

2.Measured at 1MHz and applied reverse voltage of 4.0 volts. 3.Thermal Resistance : Mounted on PCB.

### RATING AND CHARACTERISTICS CURVES (EDB101S THRU EDB106S)









**CRECTRON** —

## **Mounting Pad Layout**



Dimensions in inches and (millimeters)



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