



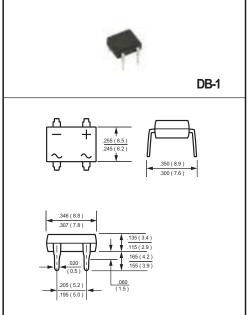
#### GLASS PASSIVATED SUPER FAST SILICON SURFACE MOUNT BRIDGE RECTIFIER VOLTAGE RANGE 50 to 600 Volts CURRENT 1.0 Ampere

#### **FEATURES**

- \* Good for automatic insertion
- \* Surge overload rating 30 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**

\* UL listed the recongnized component directory,file #94233 \* Epoxy: Device has UL flammability classification 94V-O



Dimensions in inches and (millimeters)

REV:D

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

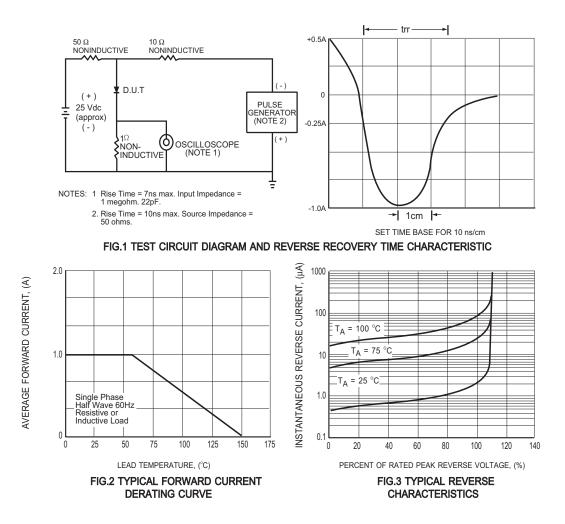
RATINGS	SYMBOL	EDB101	EDB102	EDB103	EDB104	EDB105	EDB106	EDB107	UNITS
Maximum Recurrent Peak Reverse Voltage	V <sub>RRM</sub>	50	100	150	200	300	400	600	Volts
Maximum RMS Bridge Input Voltage	V <sub>RMS</sub>	35	70	105	140	210	280	420	Volts
Maximum DC Blocking Voltage	V <sub>DC</sub>	50	100	150	200	300	400	600	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)	IFSM	30						Amps	
Typical Current Squarad Time	l <sup>2</sup> t	3.7						A <sup>2</sup> /Sec	
Typical Thermal Resistance (Note 3)	R <sub>θJA</sub>	38							°C/W
	RθJL	12							
Typical Junction Capacitance (Note 2)	CJ	15 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	EDB101	EDB102	EDB103	EDB104	EDB105	EDB106	EDB107	UNITS
Maximum Forward Voltage at 1.0A DC		V <sub>F</sub>	1.05 1.35				1.70	Volts		
Maximum Reverse Current at Rated	@T <sub>A</sub> = 25°C	1-	5.0							uAmps
DC Blocking Voltage per element	@T <sub>A</sub> = 100°C	IR IR	100							uAmps
Maximum Reverse Recovery Time (Note 1)		trr	50							nSec
Note: 1.Test Conditions: I <sub>F</sub> =0.5A,I <sub>R</sub> =-1.0A,I <sub>RR</sub> =-0.25A.									2016-04	

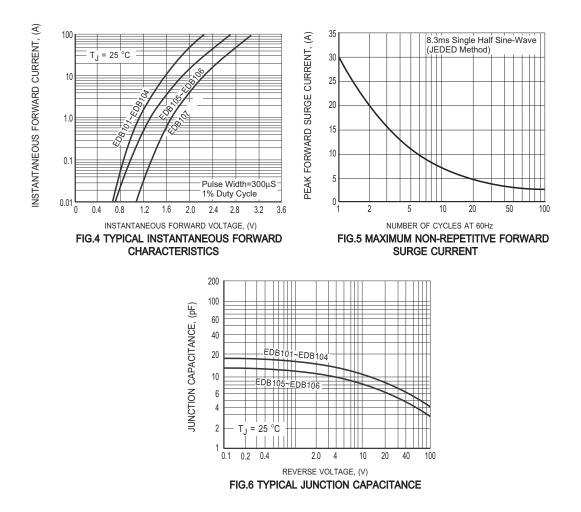
Note: 1.Test Conditions: Ir=0.5A,IR=-1.0A,IRR=-0.25A. 2.Measured at 1MHz and applied reverse voltage of 4.0 volts. 3.Thermal Resistance : Mounted on PCB.

### RATING AND CHARACTERISTICS CURVES (EDB101 THRU EDB107)



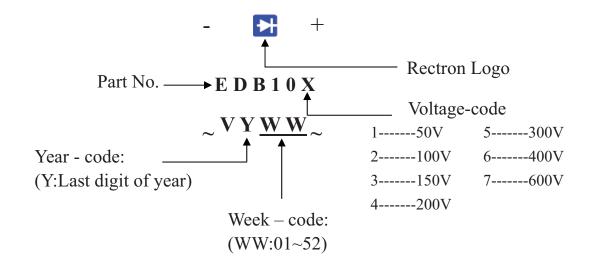
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### RATING AND CHARACTERISTICS CURVES (EDB101 THRU EDB107)





## **Marking Description**



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# PACKAGING OF DIODE AND BRIDGE RECTIFIERS

TUBE PACK

PACKAGE	PACKING CODE	EA PER BOX	INNER BOX SIZE (mm)	CARTON SIZE (mm)	EA PER CARTON	WEIGHT(Kg)
DB-1	-C	2,500	450*140*84	464*305*283	15,000	14.30



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