



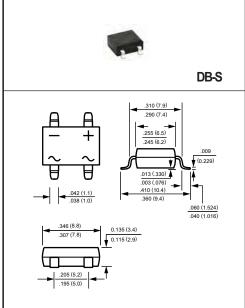
GLASS PASSIVATED SUPER FAST SILICON SURFACE MOUNT BRIDGE RECTIFIER VOLTAGE RANGE 50 to 600 Volts CURRENT 1.0 Ampere

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)

Ratings at 25 °C ambient temperature unless otherwise specified. Resistive or inductive load.

MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

RATINGS	SYMBOL	EDB101S	EDB102S	EDB103S	EDB104S	EDB105S	EDB106S	EDB107S	UNIT
Maximum Recurrent Peak Reverse Voltage	V _{RRM}	50	100	150	200	300	400	600	Volts
Maximum RMS Bridge Input Voltage	V _{RMS}	35	70	105	140	210	280	420	Volts
Maximum DC Blocking Voltage	V _{DC}	50	100	150	200	300	400	600	Volts
Maximum Average Forward Output Current at T _A = 55°C	Io	1.0					Amp		
Peak Forward Surge Current 8.3 ms single half sine-wave superimposed on rated load (JEDEC method)	IFSM	30					Amp		
Typical Current Square Time	I ² T	3.7							A ² S
Typical Thermal Resistance (Note 3)	Røja	38							•C/\
	R _{θJL}	12							
Typical Junction Capacitance (Note 2)	CJ	15 10				pl			
Operating and Storage Temperature Range	TJ,TSTG	TJ.TSTG -55 to + 150					٥C		

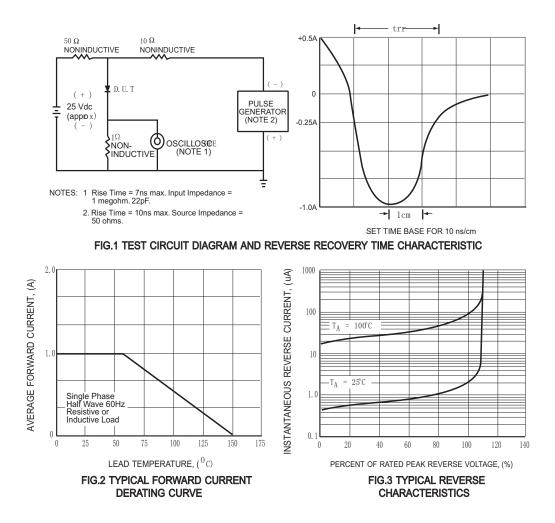
ELECTRICAL CHARACTERISTICS (At T_A = 25°C unless otherwise noted)

CHARACTERISTICS	SYMBOL	EDB101S	EDB102S	EDB103S	EDB104S	EDB105S	EDB106S	EDB107S	UNITS	
Maximum Forward Voltage at 1.0A DC	VF	1.05 1.35				1.70	Volts			
Maximum Reverse Current at Rated	@T _A = 25°C	la la	5.0							μAmps
DC Blocking Voltage per element	@T _A = 100°C	IR	100							μAmps
Maximum Reverse Recovery Time (Note 1)	trr	50						nSec		

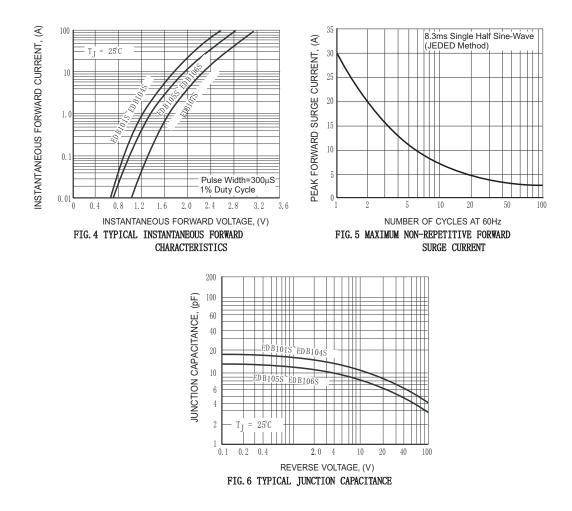
Note: 1.Test Conditions: I_F=0.5A,I_R=-1.0A,I_{RR}=-0.25A. 2.Measured at 1MHz and applied reverse voltage of 4.0 volts. 3.Thermal Resistance : Mounted on PCB.

2016-04 REV: D

RATING AND CHARACTERISTICS CURVES (EDB101S THRU EDB107S)





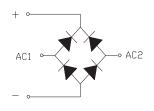




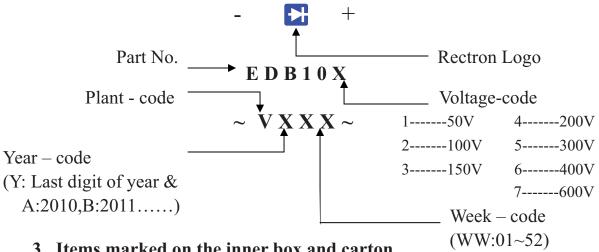


Attachment information about EDB10XS

1. Internal Circuit



2. Marking on the body



3. Items marked on the inner box and carton

3.1 On the box (for –B)

CUSTOMER TYPE LOT NO. **QUANTITY Q.A.** DATE 3.2 On the carton

> **CUSTOMER** TYPE **QUANTITY** LOT NO. REMARK

PACKAGING OF DIODE AND BRIDGE RECTIFIERS

BULK PACK

PACKAGE	PACKING CODE	EA PER BOX	EA PER BOX INNER BOX SIZE (mm)		EA PER CARTON	WEIGHT(Kg)	
DB-S	-C	4,000	450*140*84	464*305*283	24,000	18.44	

REEL PACK

PACKAGE	PACKING CODE	EA PER REEL	EA PER INNER BOX	COMPONENT SPACE (mm)	TAPE SPACE (mm)	REEL DIA (mm)	CARTON SIZE (mm)	EA PER CARTON	GROSS WEIGHT(Kg)
DB-S	-T/W	1,000	1,000	9.5	52	330	360*355*360	8,000	9.8

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