



CHENMKO ENTERPRISE CO.,LTD

SINGLE-PHASE GLASS PASSIVATED SILICON SURFACE MOUNT BRIDGE RECTIFIER

VOLTAGE RANGE 50 - 1000 Volts CURRENT 1.0 Ampere

**DB101-SPT
THRU
DB107-SPT**

Lead free devices

FEATURES

- * Reliable low cost construction utilizing molded
- * Surge overload rating of 50 Amperes peak
- * Glass passivated device
- * Ideal for printed circuit board
- * Polarity symbols molded on body

MECHANICAL DATA

Case: JEDEC DB-S molded plastic

Terminals: Solder plated, solderable per MIL-STD-750, Method 2026

Mounting position: Any

Polarity: Indicated by cathode band

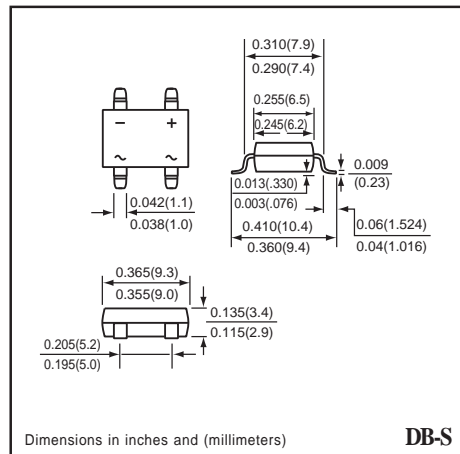
Weight: 1.0 gram

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 TA = 25°C unless otherwise noted)

RATINGS	SYMBOL	DB101-SPT	DB102-SPT	DB103-SPT	DB104-SPT	DB105-SPT	DB106-SPT	DB107-SPT	UNITS
Maximum Recurrent Peak Reverse Voltage	VRRM	50	100	200	400	600	800	1000	Volts
Maximum RMS Voltage	VRMS	35	70	140	280	420	560	700	Volts
Maximum DC Blocking Voltage	VDC	50	100	200	400	600	800	1000	Volts
Maximum Average Forward Rectified Current TA = 40°C	Io	1.0							Amps
Peak Forward Surge Current 8.3 ms single half sine-wave superimposed on rated load (JEDEC method)	IFSM	50							Amps
Operating and Storage Temperature Range	Tj, TSTG	-55 to +150							°C

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

CHARACTERISTICS	SYMBOL	DB101-SPT	DB102-SPT	DB103-SPT	DB104-SPT	DB105-SPT	DB106-SPT	DB107-SPT	UNITS	
Maximum Instantaneous Forward Voltage at 1.0 A DC	VF	1.1							Volts	
Maximum Reverse Current at rated	IR	5.0							@ TA = 25°C	uAmps
DC blocking Voltage per element									@ TA = 125°C	0.5

NOTES : Suffix " -S " Surface Mount for Dip Bridge.

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RATING CHARACTERISTIC CURVES (DB101-SPT THRU DB107-SPT)

FIG. 1 - TYPICAL FORWARD CURRENT DERATING CURVE

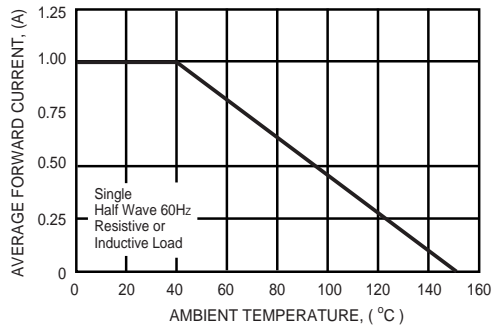


FIG. 2 - MAXIMUM NON-REPETITIVE FORWARD SURGE CURRENT

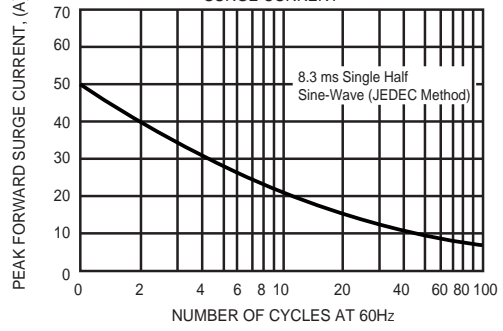


FIG. 3 - TYPICAL INSTANTANEOUS FORWARD CHARACTERISTICS

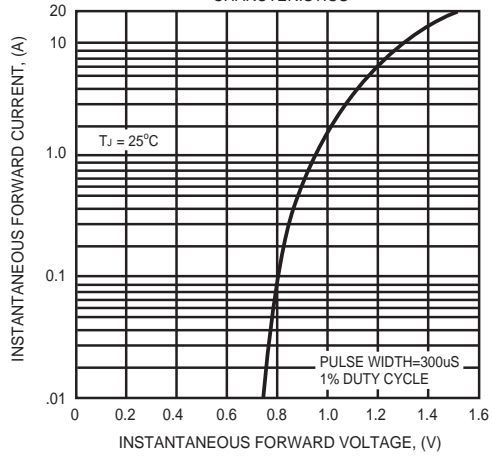


FIG. 4 - TYPICAL REVERSE CHARACTERISTICS

