



CHENMKO ENTERPRISE CO.,LTD

SINGLE-PHASE GLASS PASSIVATED

SILICON SURFACE MOUNT BRIDGE RECTIFIER

VOLTAGE RANGE 50 - 1000 Volts CURRENT 1.0 Ampere

Lead free devices

DB101-SPT

THRU

DB107-SPT

FEATURES

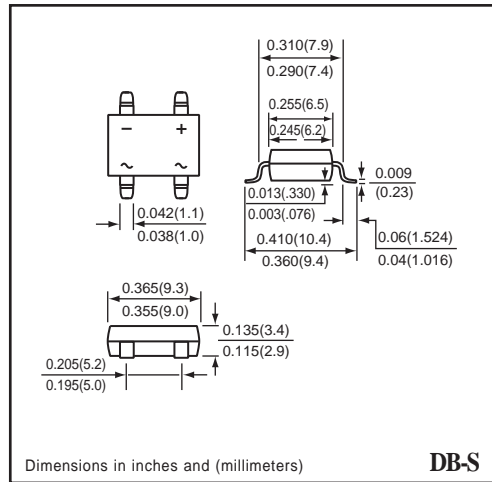
- * Reliable low cost construction utilizing molded
- * Surge overload rating of 50 Amperes peak
- * Glass passivated device
- * Ideal for printed circuit board
- * Polarity symbols molded on body

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	V _{RRM}	50	100	200	400	600	800	1000	Volts
Maximum RMS Voltage	V _{RMS}	35	70	140	280	420	560	700	Volts
Maximum DC Blocking Voltage	V _{DC}	50	100	200	400	600	800	1000	Volts
Maximum Average Forward Rectified Current TA = 40°C	I _O	1.0							Amps
Peak Forward Surge Current 8.3 ms single half sine-wave superimposed on rated load (JEDEC method)	I _{FSM}	50							Amps
Operating and Storage Temperature Range	T _J , T _{STG}	-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	V _F	1.1							Volts
Maximum Reverse Current at rated	I _R	5.0							uAmps
DC blocking Voltage per element		0.5							mAmps

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

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

FIG. 1 - TYPICAL FORWARD CURRENT DERATING CURVE

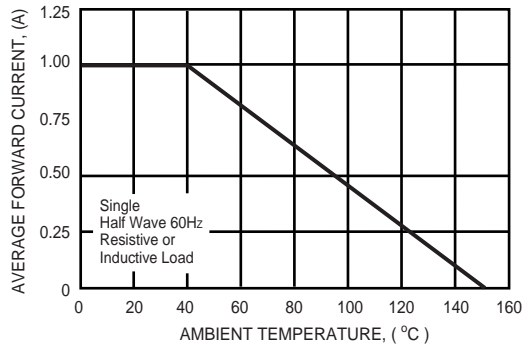


FIG. 2 - MAXIMUM NON-REPETITIVE FORWARD SURGE CURRENT

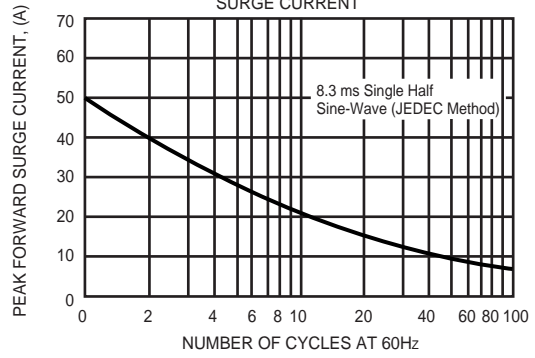


FIG. 3 - TYPICAL INSTANTANEOUS FORWARD CHARACTERISTICS

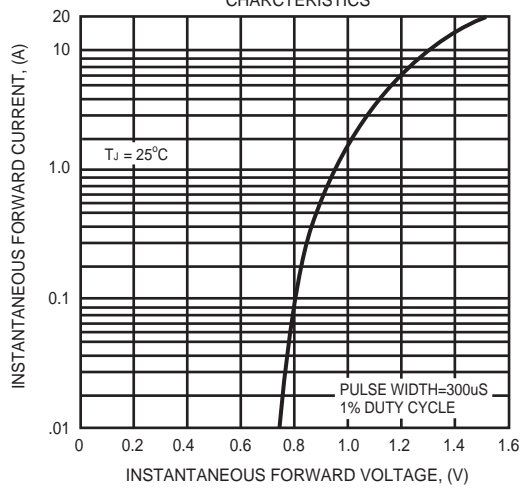


FIG. 4 - TYPICAL REVERSE CHARACTERISTICS

