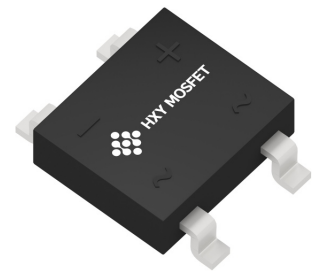




Features

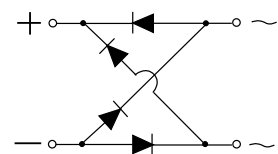
- * Ideal for printed circuit board
- * Reliable low cost construction utilizing molded plastic technique
- * High surge current capability
- * Polarity: marked on body
- * Mounting position: Any
- * Weight: 1.0 grams



DBS

Package Marking and Ordering Information

Product ID	Pack	Marking	Qty(PCS)
HSDB107TP	DBS	S107BT	1500



Internal Structure

Maximum Ratings (Ta=25°C unless otherwise noted)

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

Type Number	HSDB107TP	Units
Maximum Recurrent Peak Reverse Voltage	1000	V
Maximum RMS Voltage	700	V
Maximum DC Blocking Voltage	1000	V
Maximum Average Forward Rectified Current .375"(9.5mm) Lead Length at Ta=40°C	1.0	A
Peak Forward Surge Current, 8.3 ms single half sine-wave superimposed on rated load (JEDEC method)	50	A
Maximum Forward Voltage Drop per Bridge Element at 1.0A D.C.	1.1	V
Maximum DC Reverse Current Ta=25°C	5	A
at Rated DC Blocking Voltage Ta=125°C	500	A
Operating Temperature Range, Tj	-65 — +150	°C
Storage Temperature Range, Tstg	-65 — +150	°C



Typical Characteristics

FIG.1-TYPICAL FORWARD CURRENT
DERATING CURVE

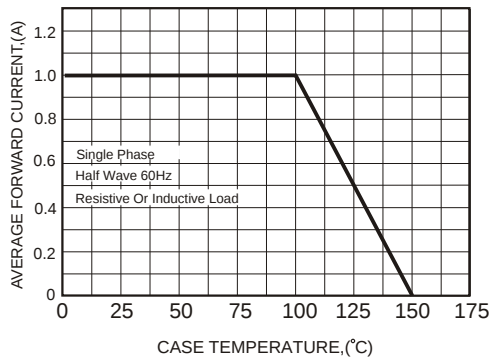


FIG.2-MAXIMUM NON-REPETITIVE FORWARD
SURGE CURRENT

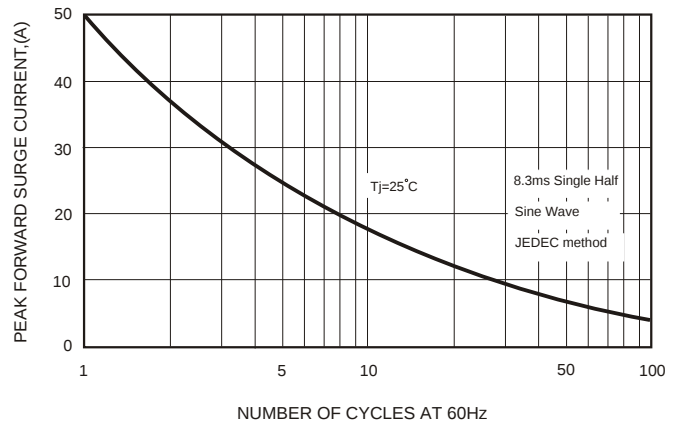


FIG.3-TYPICAL FORWARD
CHARACTERISTICS

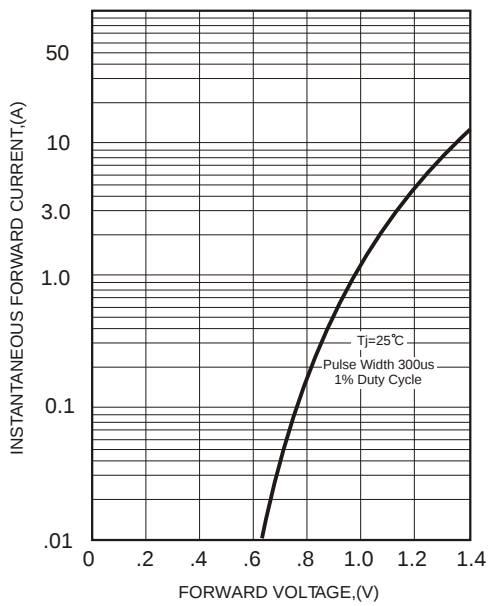
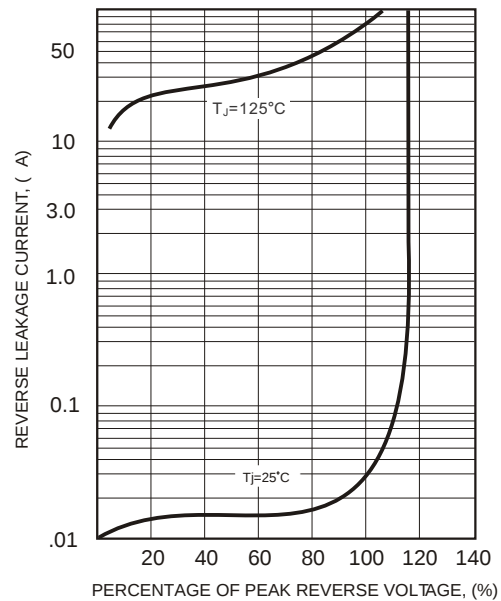
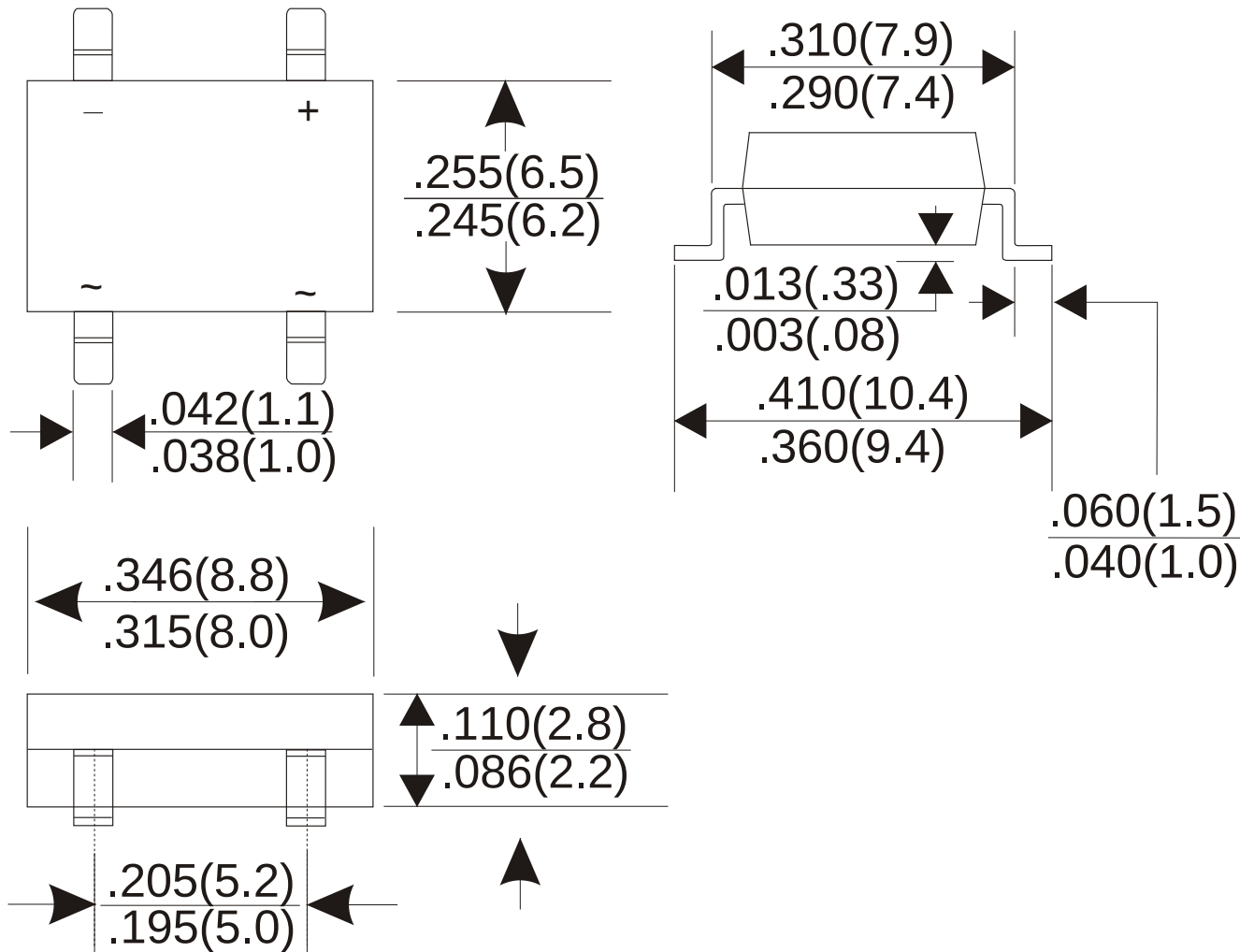


FIG.4-TYPICAL REVERSE
CHARACTERISTICS





DBS Package Outline Dimensions



Dimensions in inches and (millimeters)



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