

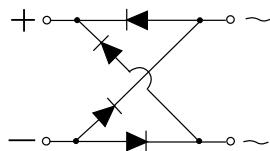


## Features

- \* 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  
(DF-S)**



**Internal Structure**

## Maxmim Ratings (Ta=25°C unless otherwise noted)

Type Number	HDF1510ST	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	1.5	A
Peak Forward Surge Current, 8.3 ms single half sine-wave superimposed on rated load (JEDEC method)	60	A
Typical thermal resistance ROJA ROJL	40	°C/W
	15	
Operating Temperature Range, T <sub>J</sub>	-55 — +150	°C
Storage Temperature Range, T <sub>Stg</sub>	-55 — +150	°C

## Electrical Characteristics(at TA=25°C unless otherwise noted)

Characteristics	Symbol	HDF1510ST	Units
Maximum Forward Voltage Drop per Bridge Element at 1.5A DC	V <sub>F</sub>	1.1	Volts
Maximum Reverse Current at rated DC Blocking Voltage per element	I <sub>R</sub>	5.0	uAmps
		0.5	mAmps



## Typical Characteristics

FIG. 1 - MAXIMUM NON-REPETITIVE FORWARD SURGE CURRENT

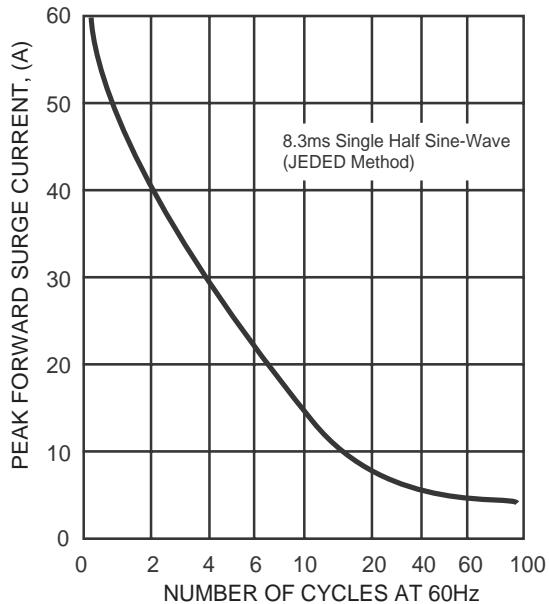


FIG. 2 - TYPICAL FORWARD CURRENT DERATING CURVE

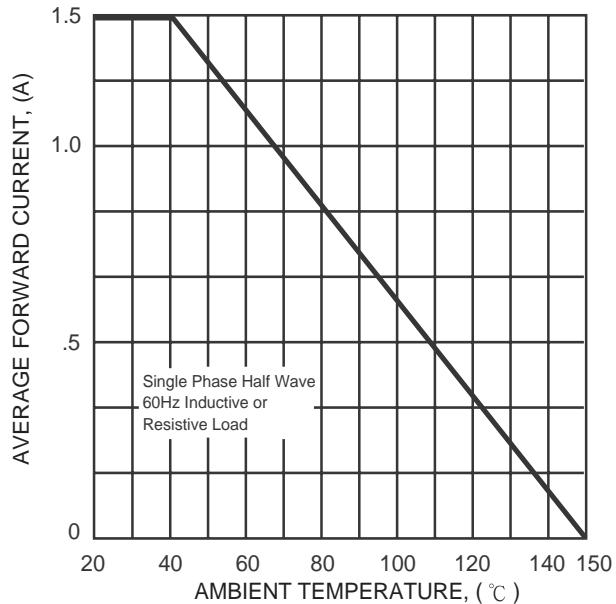


FIG. 3 - TYPICAL INSTANTANEOUS FORWARD CHARACTERISTICS

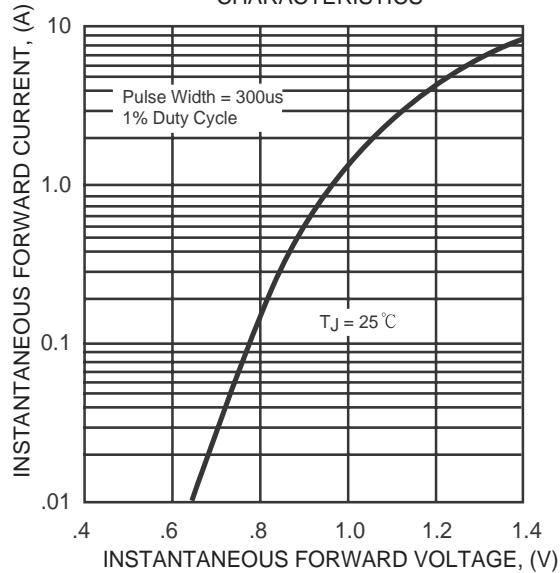
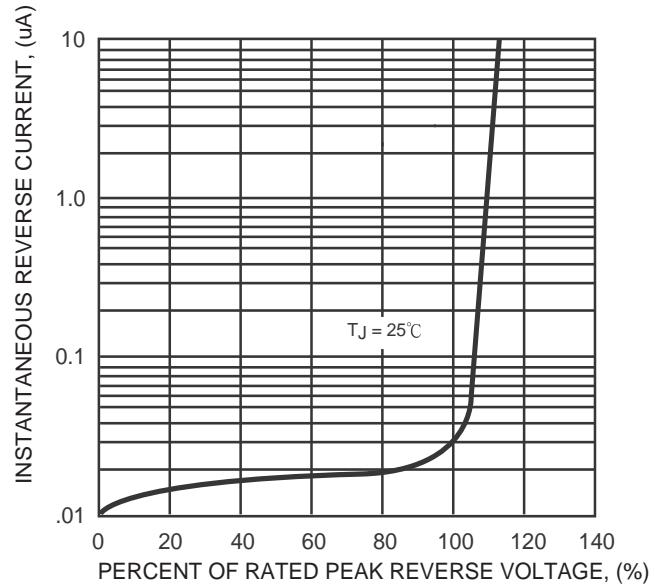
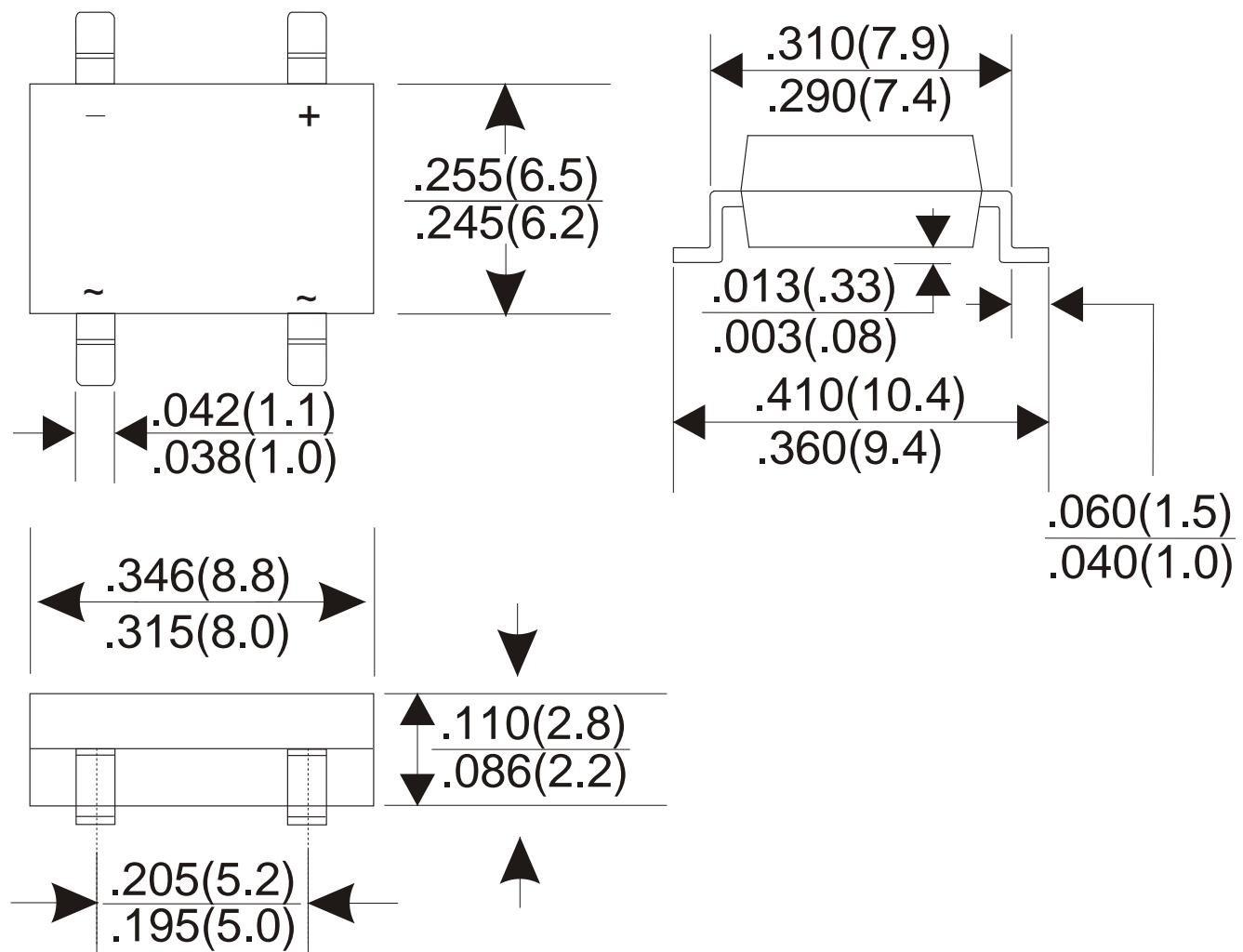


FIG. 4 - TYPICAL REVERSE CHARACTERISTICS





DBS(DF-S) Package Outline Dimensions



Dimensions in inches and (millimeters)



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