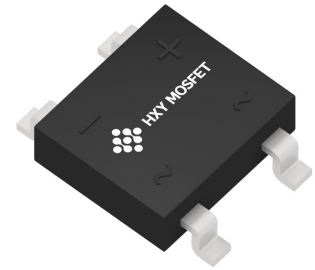


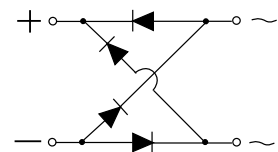


Features

- * 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)



Ordering Information

Product ID	Pack	Qty(PCS)
DF1510S-T	DBS(DF-S)	1500

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

Type Number	DF1510ST	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 15	°C/W
Operating Temperature Range, Tj	-55 — +150	°C
Storage Temperature Range, Tstg	-55 — +150	°C

Internal Structure

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

Characteristics		Symbol	DF1510ST	Units
Maximum Forward Voltage Drop per Bridge Element at 1.5A DC		V _F	1.1	Volts
Maximum Reverse Current at rated DC Blocking Voltage per element	@TA = 25°C	I _R	5.0	uAmps
	@TA = 125°C		0.5	mAmps



Typical Characteristics

FIG. 1 - MAXIMUM NON-REPETITIVE FORWARD SURGE CURRENT

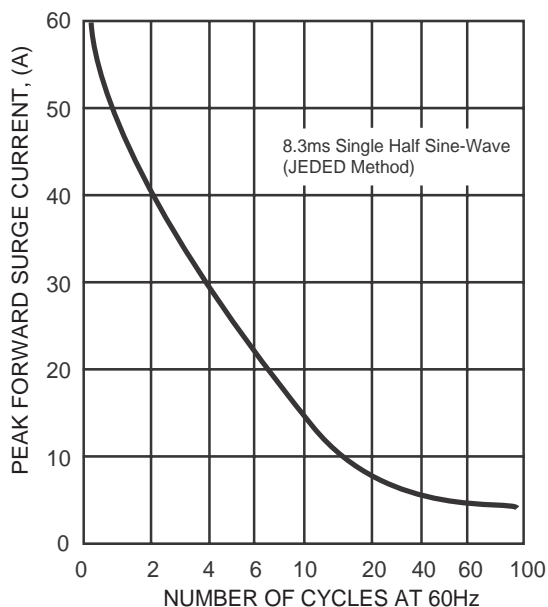


FIG. 2 - TYPICAL FORWARD CURRENT DERATING CURVE

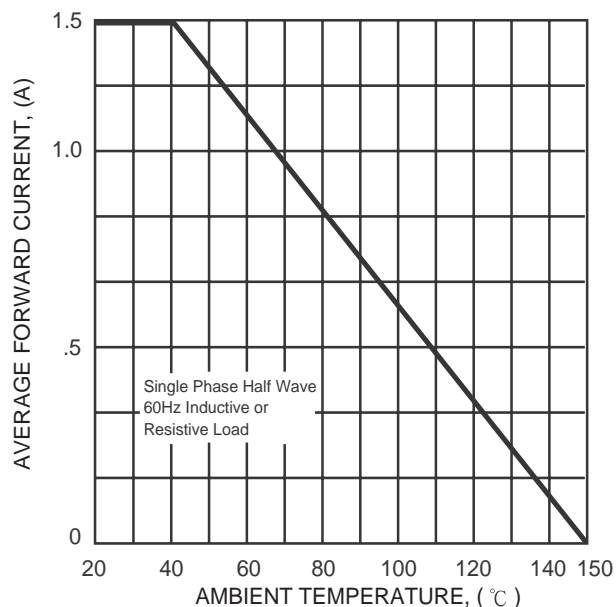


FIG. 3 - TYPICAL INSTANTANEOUS FORWARD CHARACTERISTICS

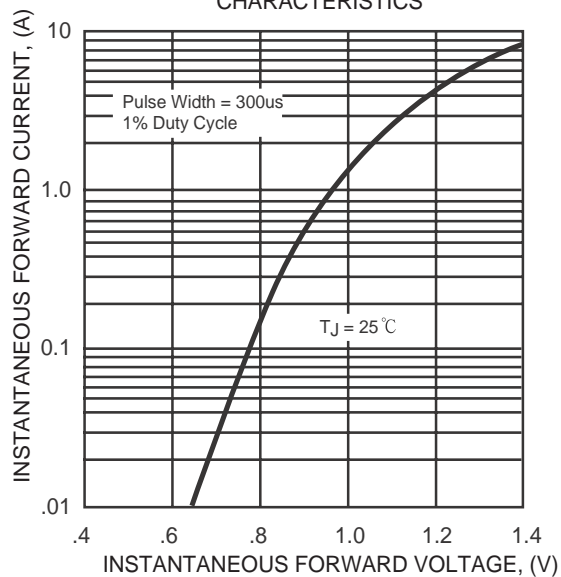
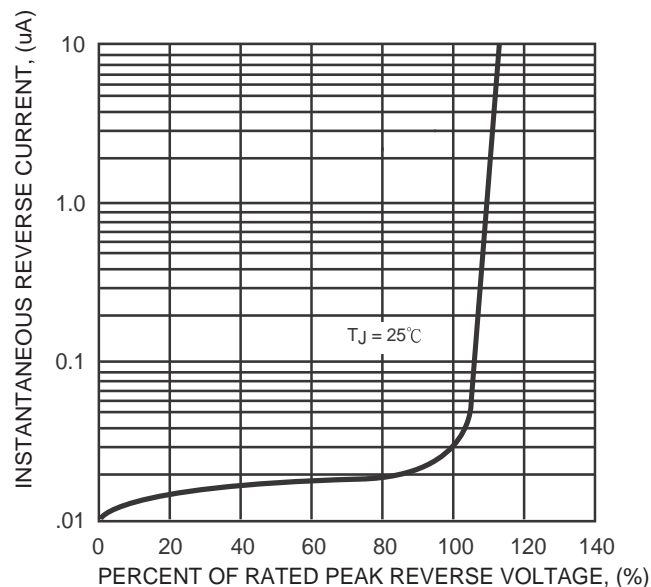
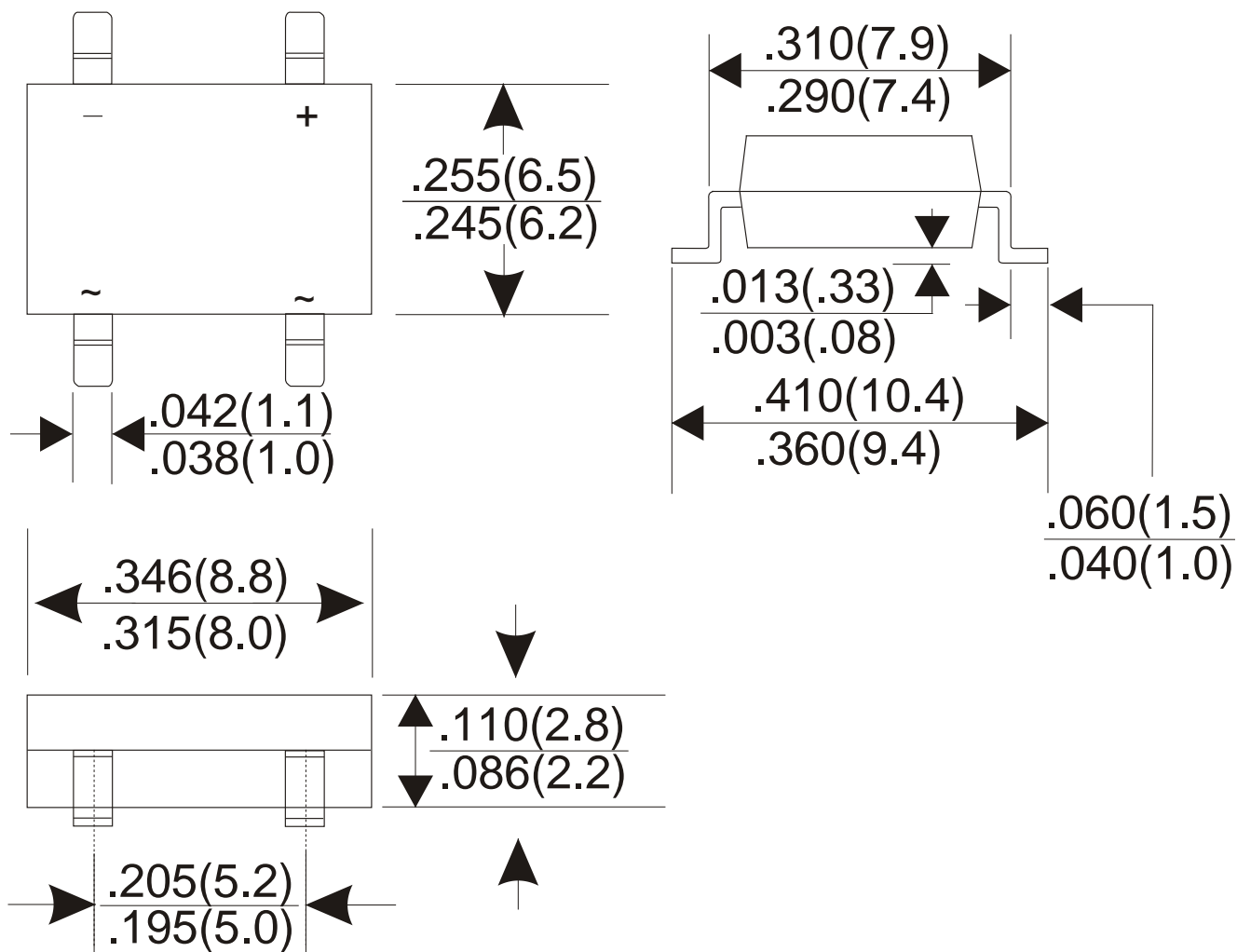


FIG. 4 - TYPICAL REVERSE CHARACTERISTICS





DBS(DF-S) Package Outline Dimensions



Dimensions in inches and (millimeters)



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