DC COMPONENTS CO., LTD.

RECTIFIER SPECIALISTS

THRU BR3510(W)

BR3505(W)

TECHNICAL SPECIFICATIONS OF SINGLE-PHASE SILICON BRIDGE RECTIFIER

VOLTAGE RANGE - 50 to 1000 Volts

FEATURES

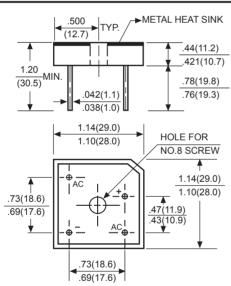
- * Plastic case with heatsink for maximum heat dissipation
- * Diffused junction
- * Low forward voltage drop

R

- * High current capability
- * High reliability

MECHANICAL DATA

- * Case: Molded plastic
- * Epoxy: UL 94-V0 rated flame retardant
- * Lead: MIL-STD-202E, Method 208 guaranteed
- * Polarity: Symbols molded or marked on body
- * Mounting position: Any
- * Weight: 30 grams



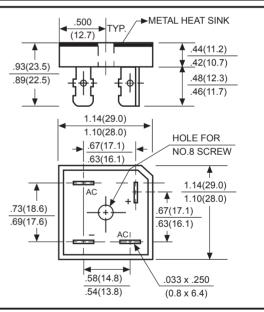
Dimensions in inches and (millimeters)

CURRENT - 35 Amperes



MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

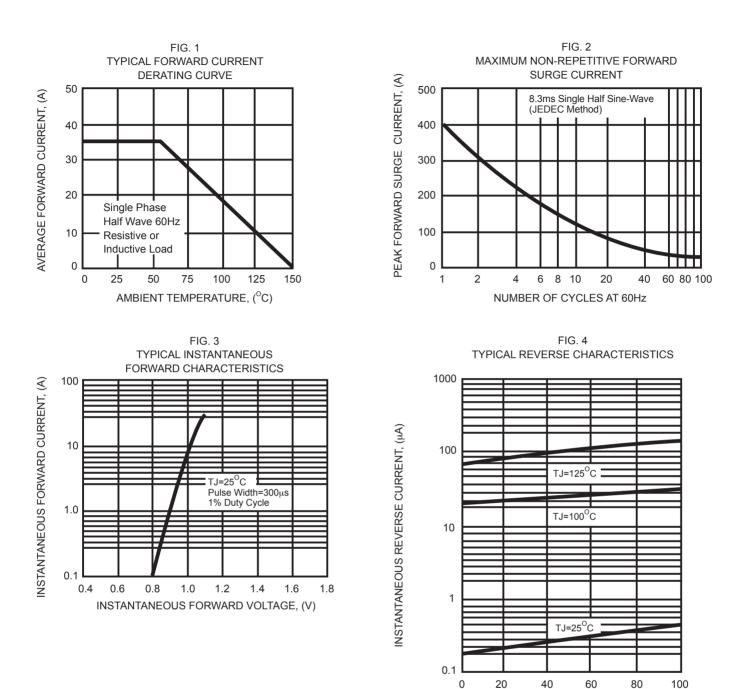
Ratings at 25°C ambient temperature unless otherwise specified. Single phase, half wave, 60Hz, resistive or inductive load. For capacitive load, derate current by 20%.



	SYMBOL	BR 3505(W)	BR 351(W)	BR 352(W)	BR 354(W)	BR 356(W)	BR 358(W)	BR 3510(W)	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 at TA = $55^{\circ}C$	lo	35						Amps	
Peak Forward Surge Current 8.3 ms single half sine-wave superimposed on rated load (JEDEC Method)	IFSM	400					Amps		
Maximum Instantaneous Forward Voltage at 17.5A DC		1.1						Volts	
Maximum DC Reverse Current at Rated@TA = 25DC Blocking Voltage@TA = 12		10 100						μAmps	
I ² t Rating for Fusing (t<8.3mS)	l ² t				664				A ² s
Operating and Storage Temperature Range		-55 to +150							°C

Note: Suffix "<u>W</u>" for wire lead type (e.g.:BR3505<u>W</u>,BR351<u>W</u>...etc)

RATING AND CHARACTERISTIC CURVES (BR3505(W) THRU BR3510(W))



PERCENT OF RATED PEAK REVERSE VOLTAGE, (%)

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