

# Central<sup>TM</sup> Semiconductor Corp.

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Manufacturers of World Class Discrete Semiconductors

## CBR1F-D010 SERIES

1 AMP DUAL IN LINE  
FAST RECOVERY  
SILICON BRIDGE RECTIFIER

DIP CASE

### DESCRIPTION

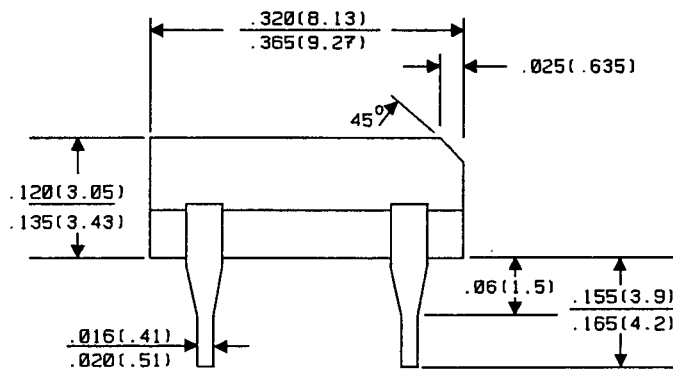
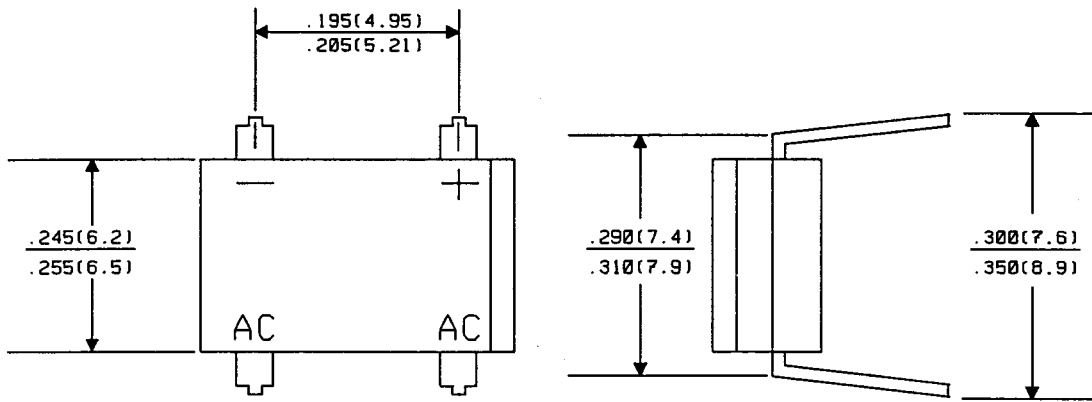
The CENTRAL SEMICONDUCTOR CBR1F-D010 series types are Silicon Full Wave Bridge Rectifiers mounted in a durable epoxy molded case. This device is ideal for printed circuit board mounting and fits into a standard DIP socket (0.1"/2.54mm spacing).

### MAXIMUM RATINGS (T<sub>A</sub> = 25°C unless otherwise noted)

	SYMBOL	CBR1F -D010	CBR1F -D020	CBR1F -D040	CBR1F -D060	CBR1F -D080	CBR1F -D100	UNITS
Peak Repetitive Reverse Voltage	V <sub>RRM</sub>	100	200	400	600	800	1000	V
DC Blocking Voltage	V <sub>R</sub>	100	200	400	600	800	1000	V
RMS Reverse Voltage	V <sub>R(RMS)</sub>	70	140	280	420	560	700	V
Average Forward Current (T <sub>A</sub> = 50°C)	I <sub>O</sub>			1.0				A
Peak Forward Surge Current	I <sub>FSM</sub>			50				A
Operating and Storage Junction Temperature	T <sub>J</sub> , T <sub>stg</sub>			-65 to +150				°C

### ELECTRICAL CHARACTERISTICS (T<sub>A</sub> = 25°C unless otherwise noted)

SYMBOL	TEST CONDITIONS	MIN	MAX	UNITS
V <sub>F</sub>	I <sub>F</sub> = 1.0A		1.3	V
I <sub>R</sub>	V <sub>R</sub> = Rated V <sub>RRM</sub>		10	μA
I <sub>R</sub>	V <sub>R</sub> = Rated V <sub>RRM</sub> , T <sub>A</sub> = 100°C		1.0	mA
t <sub>rr</sub> (100V thru 400V)	I <sub>F</sub> = 0.5A, I <sub>R</sub> = 1.0A, Recov. to 0.25A		200	ns
t <sub>rr</sub> (600V)	I <sub>F</sub> = 0.5A, I <sub>R</sub> = 1.0A, Recov. to 0.25A		300	ns
t <sub>rr</sub> (800V, 1000V)	I <sub>F</sub> = 0.5A, I <sub>R</sub> = 1.0A, Recov. to 0.25A		500	ns



All Dimensions in Inches (mm).



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