

CentralTM Semiconductor Corp.

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Manufacturers of World Class Discrete Semiconductors

CBR1A SERIES
CBR2A SERIES

SILICON BRIDGE RECTIFIERS
CONTROLLED AVALANCHE

CASE A

DESCRIPTION

The CENTRAL SEMICONDUCTOR CBR1A, CBR2A series types are silicon single phase full wave bridge rectifiers designed for controlled avalanche applications.

MAXIMUM RATINGS (T_A=50°C)

	SYMBOL	CBR1A-020 CBR2A-020	CBR1A-040 CBR2A-040	CBR1A-060 CBR2A-060	CBR1A-080 CBR2A-080	UNIT
Peak Repetitive Reverse Voltage	V _{RRM}	200	400	600	800	V
DC Blocking Voltage	V _R	200	400	600	800	V
RMS Reverse Voltage	V _R (RMS)	140	280	420	560	V
Average Forward Current (CBR1A)	I _O			1.5		A
Average Forward Current (CBR2A)	I _O			2.0		A
Peak Forward Surge Current	I _{FSM}			50		A
Operating and Storage Junction Temperature	T _J , T _{STG}		-65 TO +150			°C

ELECTRICAL CHARACTERISTICS (T_A=25°C)

SYMBOL	TEST CONDITIONS	MIN	MAX	UNIT
V _F (CBR1A Series)	I _F =1.0A		1.0	V
V _F (CBR2A Series)	I _F =2.0A		1.2	V
I _R	V _R =Rated V _{RRM}		10	μA
B _V _R (200V)		250	700	V
B _V _R (400V)		450	900	V
B _V _R (600V)		650	1100	V
B _V _R (800V)		850	1300	V