

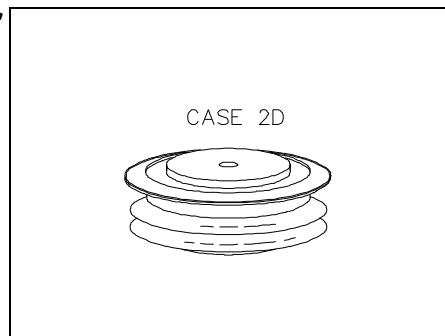
Technical Data : AD-010

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ELECTRO POWER

WEP1263YC200 - Standard Rectifier

2000 V_{RRM} ; 1263 A avg



GENERAL PURPOSE HIGH POWER STANDARD RECTIFIER

Features:

- . All Diffused Structure
- . High Surge rating
- . Blocking capability up to 1500 volts
- . Soft Reverse Recovery
- . Rugged Ceramic Hermetic Package
- . Pressure Assembled Device

ELECTRICAL CHARACTERISTICS AND RATINGS

Reverse Blocking

Device Type	V_{RRM} (1)	V_{RSM} (1)
WEP1263	2000	2100

V_{RRM} = Repetitive peak reverse voltage

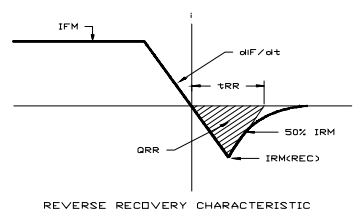
V_{RSM} = Non repetitive peak reverse voltage (2)

Notes:

All ratings are specified for $T_j = 25^\circ\text{C}$ unless otherwise stated.

- (1) All voltage ratings are specified for an applied 50Hz/60Hz sinusoidal waveform over the temperature range -40 to $+185^\circ\text{C}$.
- (2) 10 msec. max. pulse width
- (3) Maximum value for $T_j = 185^\circ\text{C}$.
- (4) See parameter definition below :

Repetitive peak reverse leakage	I_{RRM}	15 mA 40 mA (3)
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Conducting - on state

Parameter	Symbol	Min.	Max.	Typ.	Units	Conditions
Average value of on-state current	$I_{F(AV)}$		1200		A	Sinewave, 180° conduction, $T_c = 115^\circ\text{C}$
RMS value of on-state current	I_{FRMS}		1880		A	Nominal value

Peak one cycle surge (non repetitive) current	I_{FSM}		11100 10500		A A	8.3 msec (60Hz), sinusoidal wave- shape, 180° conduction, $T_j = 185^\circ\text{C}$ 10.0 msec (50Hz), sinusoidal wave- shape, 180° conduction, $T_j = 185^\circ\text{C}$
I square t	I^2t		510000		A^2s	8.3 msec and 10.0 msec
Peak on-state voltage	V_{FM}		1.65		V	$I_{FM} = 3800\text{ A}$; Duty cycle $\leq 0.01\%$
Reverse Recovery Current (4)	$I_{RM(REC)}$		100		A	$I_{FM} = 1000\text{ A}$; $dI_F/dt = 10\text{ A}/\mu\text{s}$; T_{jmax}
Reverse Recovery Charge (4)	Q_{rr}		900		μC	$I_{FM} = 1000\text{ A}$; $dI_F/dt = 10\text{ A}/\mu\text{s}$; T_{jmax}
Reverse Recovery Time (4)	t_{RR}		*		μs	

* For guaranteed maximum values, contact

factory

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THERMAL AND MECHANICAL CHARACTERISTICS Standard Rectifier

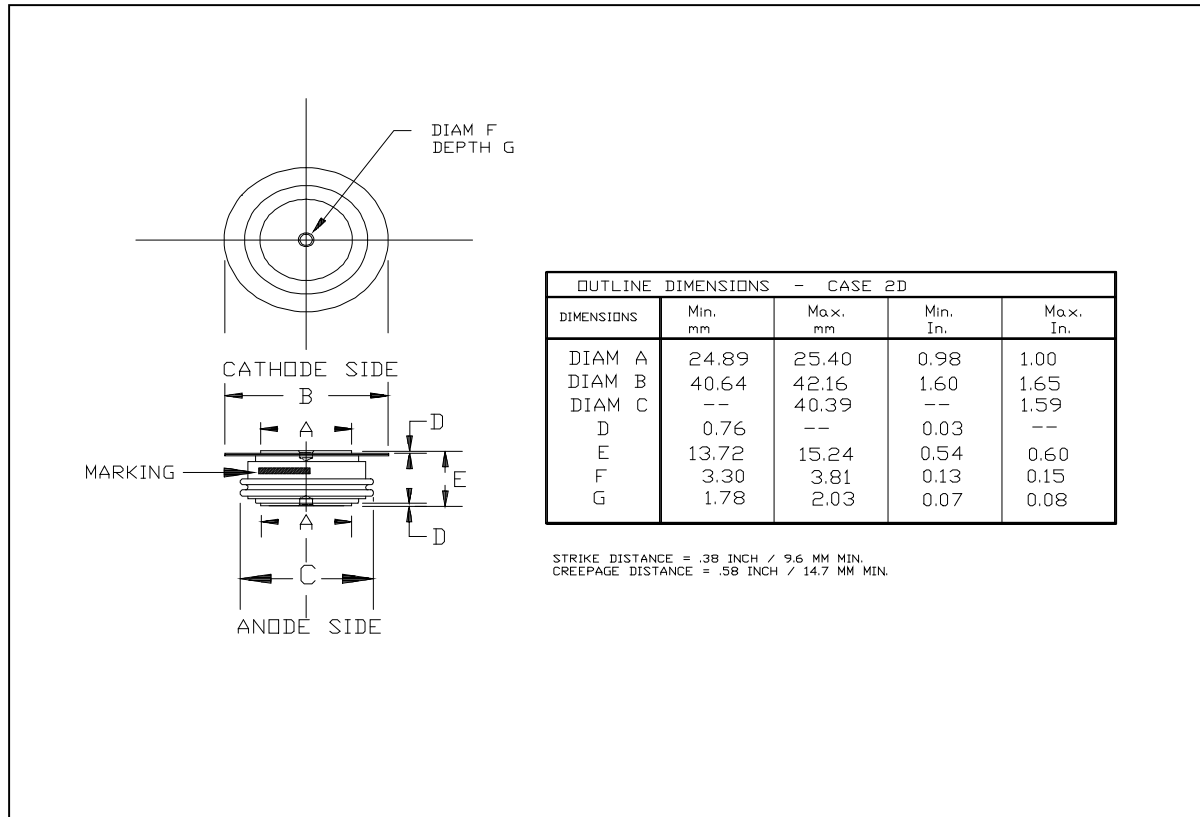
A330 -

Parameter	Symbol	Min.	Max.	Typ.	Units	Conditions
Operating temperature	T_j	-40	+185		$^\circ\text{C}$	
Storage temperature	T_{stg}	-40	+185		$^\circ\text{C}$	
Thermal resistance - junction to case	$R_{\theta(j-c)}$	0.045 (1)	0.055 (2)		$^\circ\text{C}/\text{W}$	Double sided cooled (1) @ 2000 lb.; (2) @ 800 lb.
Thermal resistance - junction to case	$R_{\theta(j-c)}$	0.090 (1)	0.110 (2)		$^\circ\text{C}/\text{W}$	Single sided cooled (1) @ 2000 lb.; (2) @ 800 lb.
Thermal resistance - case to sink	$R_{\theta(c-s)}$		.030 .060		$^\circ\text{C}/\text{W}$	Double sided cooled * Single sided cooled *
Mounting force	P	800 3.6	2500 11.2		lb. kN	
Weight	W			2.5 70	oz. g	

* Mounting surfaces smooth,

flat and greased

CASE OUTLINE AND DIMENSIONS



ELECTRO POWER

A330 - Standard Rectifier

Electro Power Enterprise

11,12- B.G. CHAVDA INDUSTRIAL ESTATE, B/H VISHAL ENGINEERING NR SHRINATHJI ESTATE, NUTAN NAGRIK BANK ROAD CHANGODAR, AHMEDABAD, GUJARAT 382213

Email: Epe.rajesh@gmail.com | info@electropowerenterprise.in

Phn: +91 - 9825022936 | 7600343075 | 7600343092

Website: <https://electropowerenterprise.in/>