



CBD30120VCT

LOW VF SCHOTTKY RECTIFIER

VOLTAGE 120 Volts **CURRENT** 30 Amperes

FEATURES

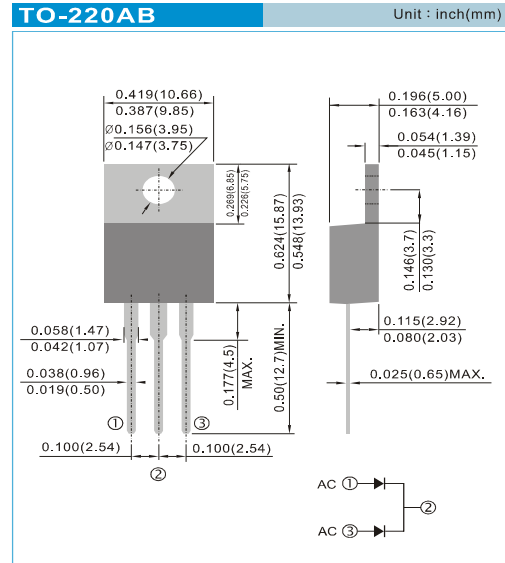
- Low forward voltage drop, low power losses
- High efficiency operation
- Lead free in comply with EU RoHS 2011/65/EU directives

MECHANICAL DATA

Case : TO-220AB, Plastic

Terminals : Solderable per MIL-STD-750, Method 2026

Weight : 0.0655 ounces, 1.859 grams.



MAXIMUM RATINGS($T_A=25^{\circ}\text{C}$ unless otherwise noted)

PARAMETER	SYMBOL	VALUE	UNIT
Maximum repetitive peak reverse voltage	V_{RRM}	120	V
Maximum rms voltage	V_{RMS}	85	V
Maximum dc blocking voltage	V_R	120	V
Maximum average forward rectified current	$I_{F(AV)}$	30 15	A
Peak forward surge current : 8.3ms single half sine-wave superimposed on rated load	I_{FSM}	275	A
Typical thermal resistance	$R_{\theta JC}$	2	$^{\circ}\text{C}/\text{W}$
Operating junction temperature range	T_J	-55 to + 150	$^{\circ}\text{C}$
Storage temperature range	T_{STG}	-55 to + 150	$^{\circ}\text{C}$

Note : 1. Mounted on infinite heatsink.

ELECTRICAL CHARACTERISTICS($T_A=25^{\circ}\text{C}$ unless otherwise noted)

PARAMETER	SYMBOL	TEST CONDITIONS	MIN.	TYP.	MAX.	UNIT
Breakdown voltage per diode	V_{BR}	$I_R=1\text{mA}$	120	-	-	V
Instantaneous forward voltage per diode	V_F	$I_F=5\text{A}$	-	0.56	-	V
		$I_F=7.5\text{A}$	-	0.63	-	V
		$I_F=15\text{A}$	-	0.75	0.8	V
		$I_F=5\text{A}$	-	0.48	-	V
Reverse current per diode	I_R	$V_R=96\text{V}$	-	10	-	μA
		$V_R=120\text{V}$	-	-	50	μA
		$T_J=25^{\circ}\text{C}$ $T_J=125^{\circ}\text{C}$	-	16	-	mA



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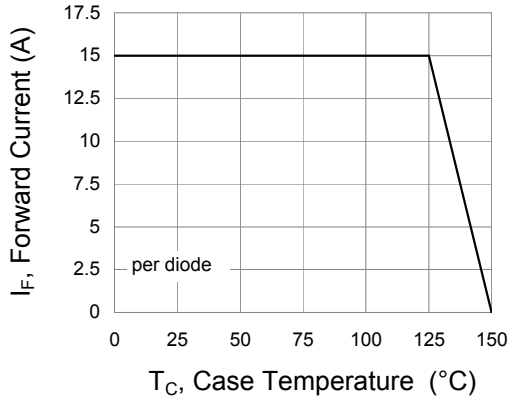


Fig.1 Forward Current Derating Curve

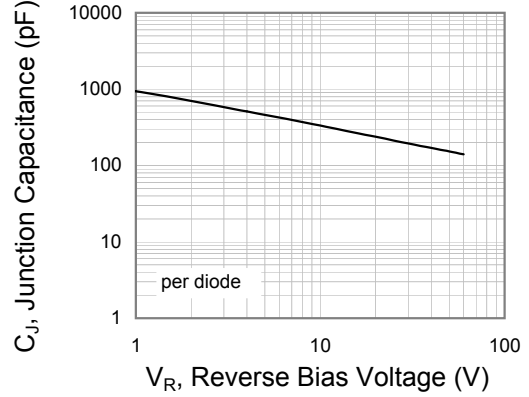


Fig.2 Typical Junction Capacitance

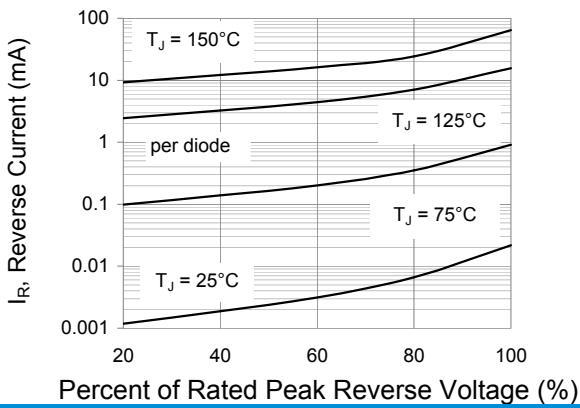


Fig.3 Typical Reverse Characteristics

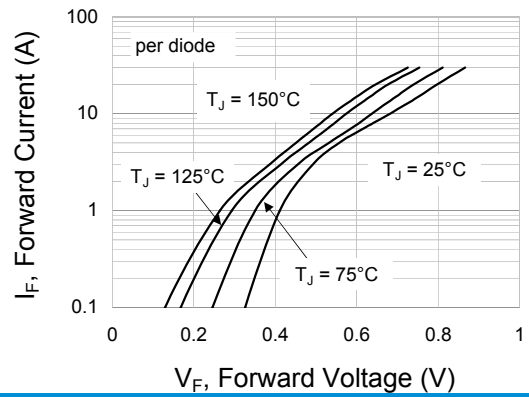


Fig.4 Typical Forward Characteristics



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Part No_packing code_Version

CBD30120VCT_T0_00001

CBD30120VCT_T0_10001

For example :

RB500V-40_R2_00001



Packing Code XX				Version Code XXXXX		
Packing type	1 st Code	Packing size code	2 nd Code	HF or RoHS	1 st Code	2 nd ~5 th Code
Tape and Ammunition Box (T/B)	A	N/A	0	HF	0	serial number
Tape and Reel (T/R)	R	7"	1	RoHS	1	serial number
Bulk Packing (B/P)	B	13"	2			
Tube Packing (T/P)	T	26mm	X			
Tape and Reel (Right Oriented) (TRR)	S	52mm	Y			
Tape and Reel (Left Oriented) (TRL)	L	PANASERT T/B CATHODE UP (PBCU)	U			
FORMING	F	PANASERT T/B CATHODE DOWN (PBCD)	D			



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