



### LOW VF SCHOTTKY RECTIFIER

VOLTAGE 60 Volts CURRENT 20 Amperes

#### **FEATURES**

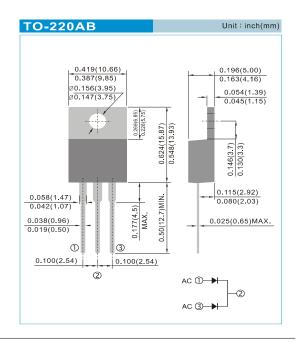
- · Low forward voltage drop, low power losses
- High efficiency operation
- Lead free in comply with EU RoHS 2011/65/EU directives

#### **MECHANICAL DATA**

Case: TO-220AB, Plastic

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

Weight: 0.0655 ounces, 1.859 grams.



#### MAXIMUM RATINGS (TA=25°C unless otherwise noted)

PARAMETER	SYMBOL	VALUE	UNIT	
Maximum repetitive peak reverse voltage		VRRM	60	V
Maximum rms voltage		VRMS	42	V
Maximum average forward rectified current	per device per diode	l f(AV)	20 10	А
Peak forward surge current 8.3ms single half sine-wave superimposed on rated load	per diode	lғsм	200	А
Typical thermal resistance per diode	(Note 1)	R⊚JC	2.5	°C/W
Operating junction temperature range		Tu	-55 to + 150	°C
Storage temperature range		Тѕтс	-55 to + 150	°C

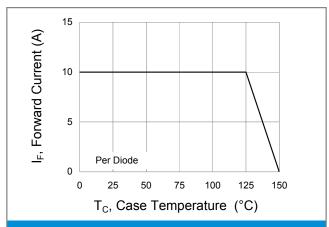
### ELECTRICAL CHARACTERISTICS (TA=25°C unless otherwise noted)

PARAMETER	SYMBOL	TEST CONDITIONS		MIN.	TYP.	MAX.	UNIT
Breakdown voltage per diode	V <sub>BR</sub>	I R=1.0mA		60	-	-	V
Instantaneous forward voltage per diode	VF	IF=3A IF=5A IF=10A IF=3A IF=5A IF=10A	TJ=25°C TJ=125°C	-	0.45 0.50 0.60 0.36 0.43 0.56	- - 0.64 - -	V
Reverse current per diode	IR	V <sub>R</sub> =48V	TJ=25°C TJ=125°C	-	9 - 12	- 100	μA μA mA

Note:1.Mounted on infinite heatsink.







**Fig.1 Forward Current Derating Curve** 

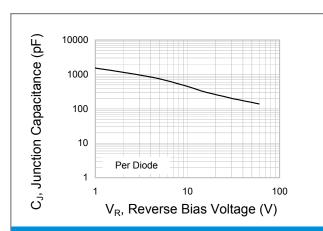


Fig.2 Typical Junction Capacitance

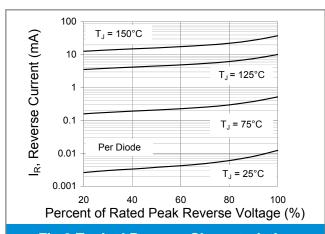
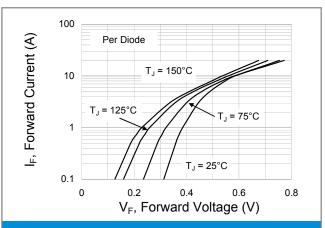


Fig.3 Typical Reverse Characteristics



**Fig.4 Typical Forward Characteristics** 





### Part No\_packing code\_Version

CBD2060LCT\_T0\_00001 CBD2060LCT\_T0\_10001

# For example :



Packing Code XX			Version Code XXXXX			
Packing type	1 <sup>st</sup> Code	Packing size code	2 <sup>nd</sup> Code	HF or RoHS	1 <sup>st</sup> Code	2 <sup>nd</sup> ~5 <sup>th</sup> Code
Tape and Ammunition Box (T/B)	Α	N/A	0	HF	0	serial number
Tape and Reel (T/R)	R	7"	1	RoHS	1	serial number
Bulk Packing (B/P)	В	13"	2			
Tube Packing (T/P)	Т	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			





### **Disclaimer**

- Reproducing and modifying information of the document is prohibited without permission from Panjit International Inc..
- Panjit International Inc. reserves the rights to make changes of the content herein the document anytime without notification. Please refer to our website for the latest document.
- Panjit International Inc. disclaims any and all liability arising out of the application or use of any product including damages incidentally and consequentially occurred.
- Panjit International Inc. does not assume any and all implied warranties, including warranties
  of fitness for particular purpose, non-infringement and merchantability.
- Applications shown on the herein document are examples of standard use and operation.
   Customers are responsible in comprehending the suitable use in particular applications.
   Panjit International Inc. makes no representation or warranty that such applications will be suitable for the specified use without further testing or modification.
- The products shown herein are not designed and authorized for equipments requiring high level of reliability or relating to human life and for any applications concerning life-saving or life-sustaining, such as medical instruments, transportation equipment, aerospace machinery et cetera. Customers using or selling these products for use in such applications do so at their own risk and agree to fully indemnify Panjit International Inc. for any damages resulting from such improper use or sale.
- Since Panjit uses lot number as the tracking base, please provide the lot number for tracking when complaining.