



CBD20120LCT

LOW VF SCHOTTKY RECTIFIER

VOLTAGE 120 Volts **CURRENT** 20 Amperes

FEATURES

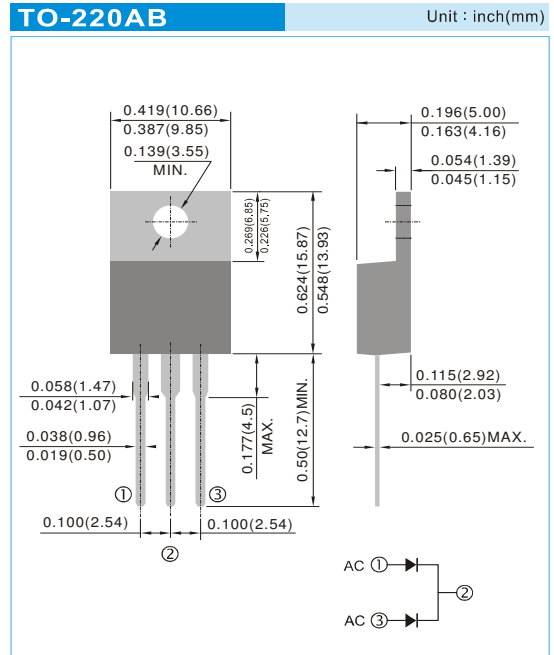
- Low forward voltage drop, low power losses
- High efficiency operation
- Lead free in comply with EU RoHS 2002/95/EC directives

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°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 average forward rectified current	I _{F(AV)}	20 10	A
Peak forward surge current 8.3ms single half sine-wave superimposed on rated load	I _{FSM}	200	A
Typical thermal resistance per diode	R _{θJC}	3	°C/W
Operating junction temperature range	T _J	-55 to + 150	°C
Storage temperature range	T _{STG}	-55 to + 150	°C

ELECTRICAL CHARACTERISTICS (T_A=25°C unless otherwise noted)

PARAMETER	SYMBOL	TEST CONDITIONS	MIN.	TYP.	MAX.	UNIT
Breakdown voltage per diode	V _{BR}	I _R =1.0mA	120	-	-	V
Instantaneous forward voltage per diode	V _F	I _F =3A	-	0.61	-	V
		I _F =5A	-	0.69	-	V
		I _F =10A	-	0.76	0.80	V
		I _F =3A	-	0.50	-	V
Reverse current per diode	I _R	I _F =5A	-	0.55	-	V
		I _F =10A	-	0.63	0.68	V
		V _R =96V	-	1.8	-	μA
Reverse current per diode	I _R	V _R =120V	-	-	20	μA
		T _J =25°C	-	3.8	10	mA
		T _J =125°C	-			

Note:1.Infinite heatsink



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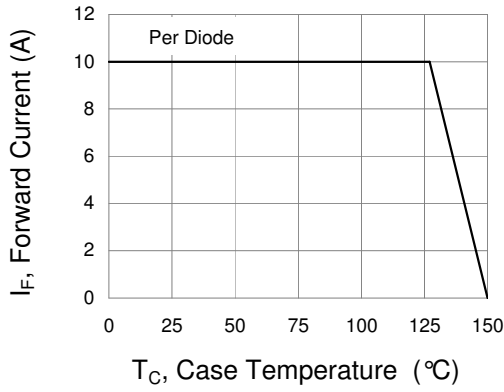


Fig.1 Forward Current Derating Curve

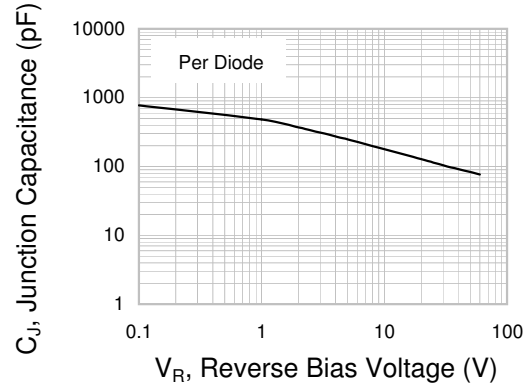


Fig.2 Typical Junction Capacitance

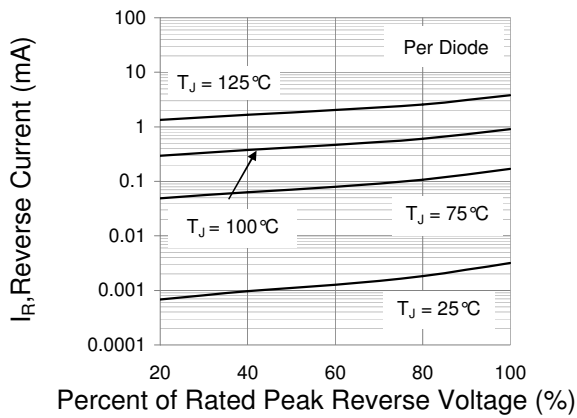


Fig.3 Typical Reverse Characteristics

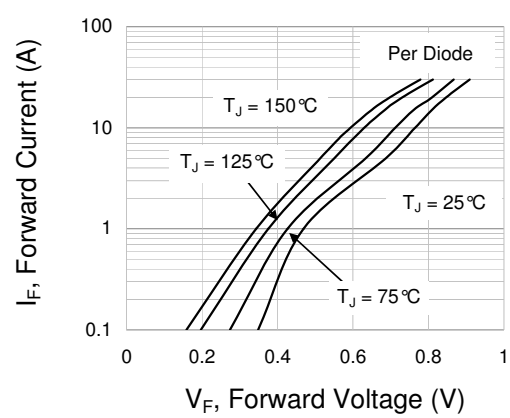


Fig.4 Typical Forward Characteristics