



CBD20120LCT

LOW VF SCHOTTKY RECTIFIER

VOLTAGE 120 Volts **CURRENT** 20 Amperes

FEATURES

- Low forward voltage drop, low power losses
- High efficiency operation
- In compliance with EU RoHS 2002/95/EC directives

MECHANICAL DATA

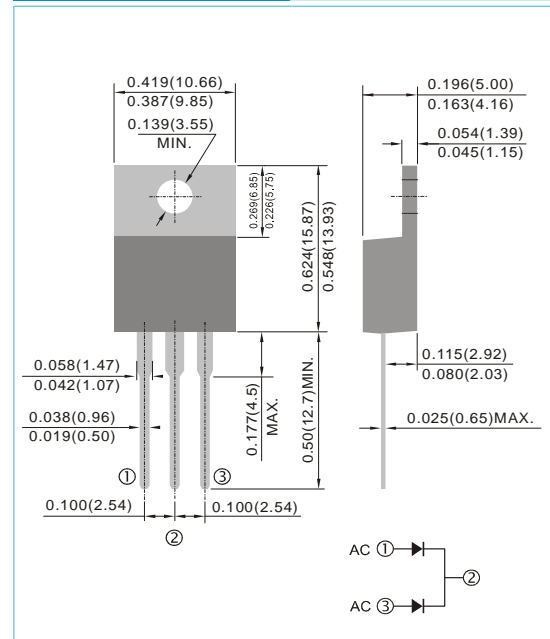
Case : TO-220AB, Plastic

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

Weight: 0.0655 ounces, 1.859 grams.

TO-220AB

Unit : inch(mm)



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}	84	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	R _{θJC}	2.0	°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 =5A T _J =25°C	-	0.62	-	V
		I _F =10A T _J =25°C	-	0.79	0.90	V
		I _F =5A T _J =125°C	-	0.52	-	V
		I _F =10A T _J =125°C	-	0.62	0.72	V
Reverse current per diode	I _R	V _R =90V	-	14	-	μA
		V _R =120V T _J =25°C	-	-	400	μA
		V _R =120V T _J =125°C	-	20	50	mA



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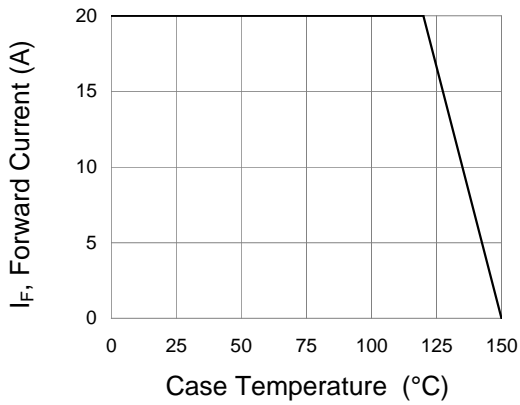


Fig.1 Forward Current Derating Curve

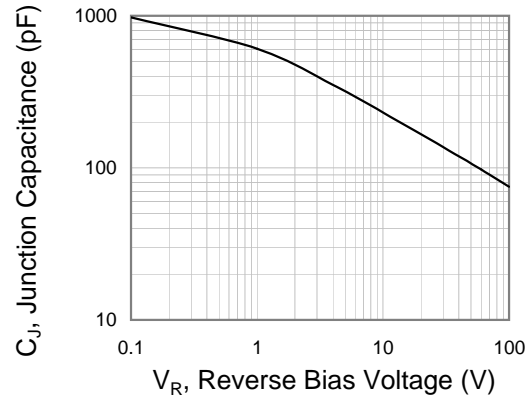


Fig.2 Typical Junction Capacitance

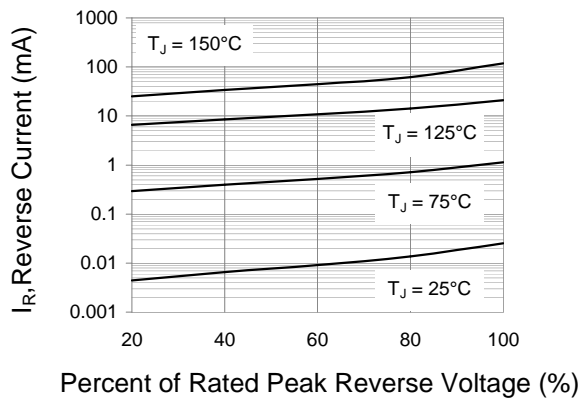


Fig.3 Typical Reverse Characteristics

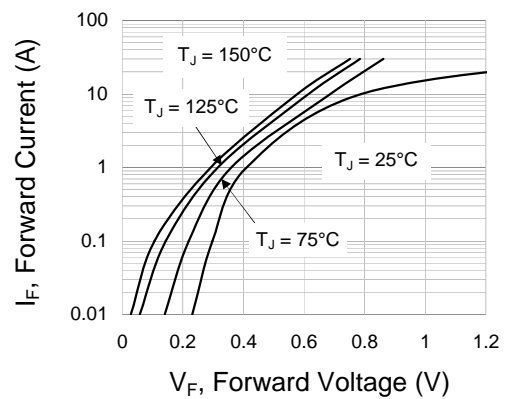


Fig.4 Typical Forward Characteristics