



SB2080LCT

LOW VF SCHOTTKY RECTIFIER

VOLTAGE 80 Volts **CURRENT** 20 Amperes

FEATURES

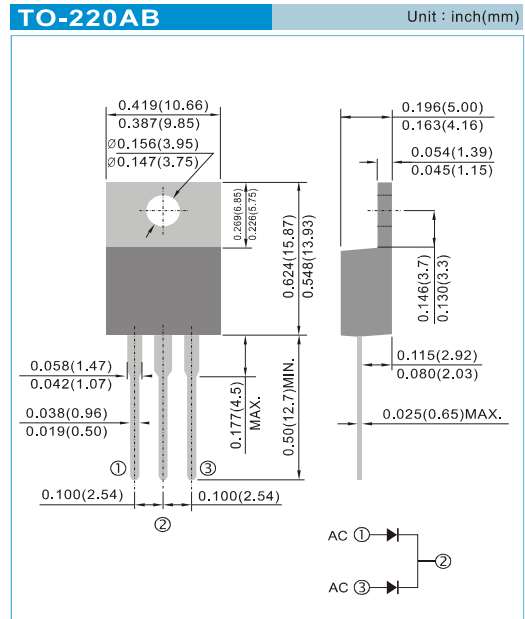
- Low forward voltage drop, low power losses
- High efficiency operation
- Lead free in comply with EU RoHS 2011/65/EU directives

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	V _{RRM}	80	V
Maximum rms voltage	V _{RMS}	56	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}	2	°C/W
Operating junction temperature range	T _J	-55 to + 150	°C
Storage temperature range	T _{STG}	-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 _{BR}	I _R =1.0mA	80	-	-	V	
Instantaneous forward voltage per diode	V _F	I _F =3A	-	0.41	-	V	
		I _F =5A	-	0.45	-	V	
		I _F =10A	-	0.55	0.65	V	
		I _F =3A	-	0.32	-	V	
		I _F =5A	-	0.39	-	V	
Reverse current per diode	I _R	V _R =64V	-	41	-	μA	
		V _R =80V	T _J =25°C	-	-	300	μA
			T _J =100°C	-	18	-	mA

Note:1.Mounted on infinite heatsink



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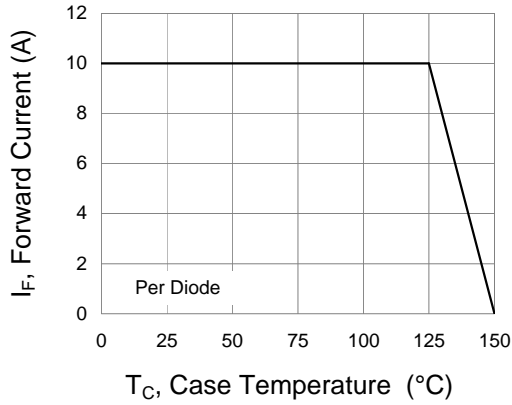


Fig.1 Forward Current Derating Curve

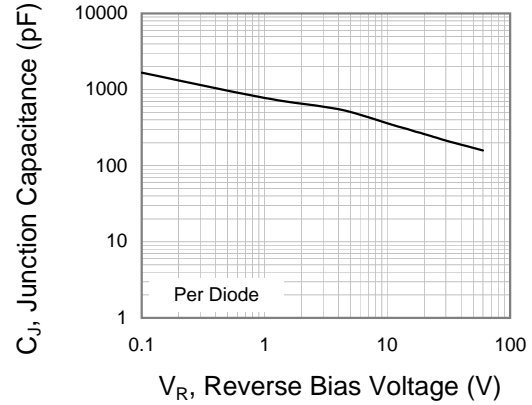


Fig.2 Typical Junction Capacitance

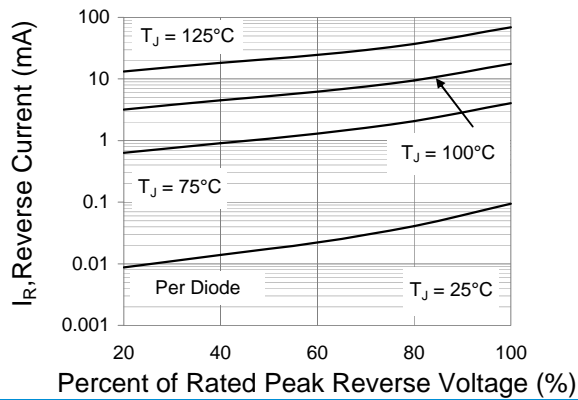


Fig.3 Typical Reverse Characteristics

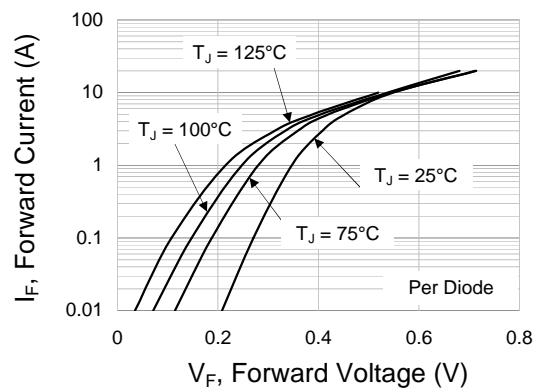


Fig.4 Typical Forward Characteristics



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Part No_packing code_Version

SB2080LCT_T0_00001
 SB2080LCT_00001
 SB2080LCT_T0_10001
 SB2080LCT_10001

For example :

RB500V-40_R2_00001



Packing Code XX				Version Code XXXXXX		
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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