



SB4040LDC

LOW VF SCHOTTKY RECTIFIER

VOLTAGE 40 Volt **CURRENT** 40 Ampere

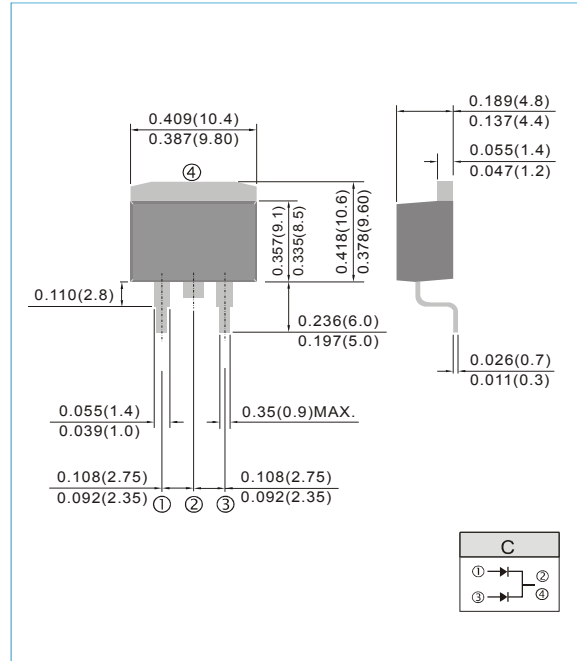
TO-263 / D²PAK Unit : inch(mm)

FEATURES

- Low forward voltage drop, low power loss
- High efficiency operation
- Lead free in compliance with EU RoHS 2.0
- Green molding compound as per IEC 61249 standard

MECHANICAL DATA

- Case : TO-263/D²PAK, Plastic
- Terminals : Solderable per MIL-STD-750, Method 2026
- Weight : 0.049 ounces, 1.38 grams



MAXIMUM RATINGS (T_A=25°C unless otherwise noted)

PARAMETER	SYMBOL	VALUE	UNIT
Maximum repetitive peak reverse voltage	V _{RRM}	40	V
Maximum average forward rectified current	I _{F(AV)}	40 20	A
Peak forward surge current 8.3ms single half sine-wave superimposed on rated load	I _{FSM}	250	A
Typical thermal resistance (Note)	R _{θJC}	3.3	°C/W
Operating junction and storage temperature range	T _J , 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	V _{BR}	I _R =1mA	40	-	-	V
Instantaneous forward voltage per diode	V _F	I _F = 5A I _F =10A I _F =20A	-	0.37 0.41 0.47	- - 0.50	V
		I _F = 5A I _F =10A I _F =20A	-	0.25 0.31 0.39	- - 0.42	V
		I _R	V _R =32V	-	126	-
Reverse current per diode	I _R	V _R =40V	-	270	400	μA
			-	140	560	mA

Note : Semi-infinite heatsink.



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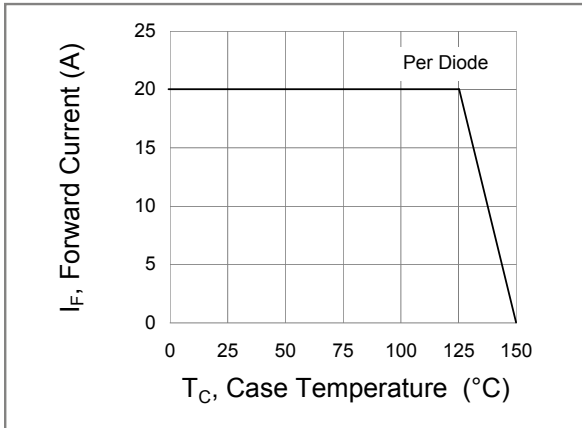


Fig.1 Forward Current Derating Curve

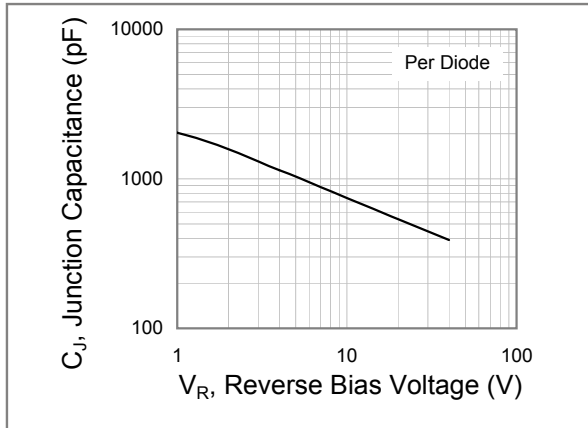


Fig.2 Typical Junction Capacitance

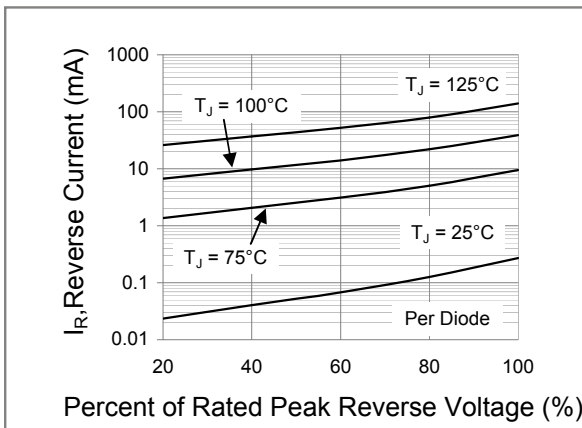


Fig.3 Typical Reverse Characteristics

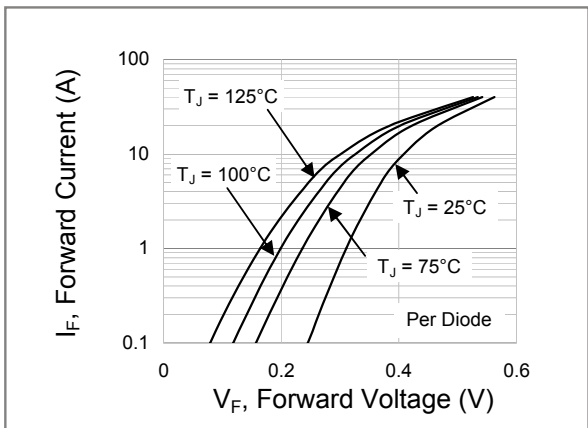
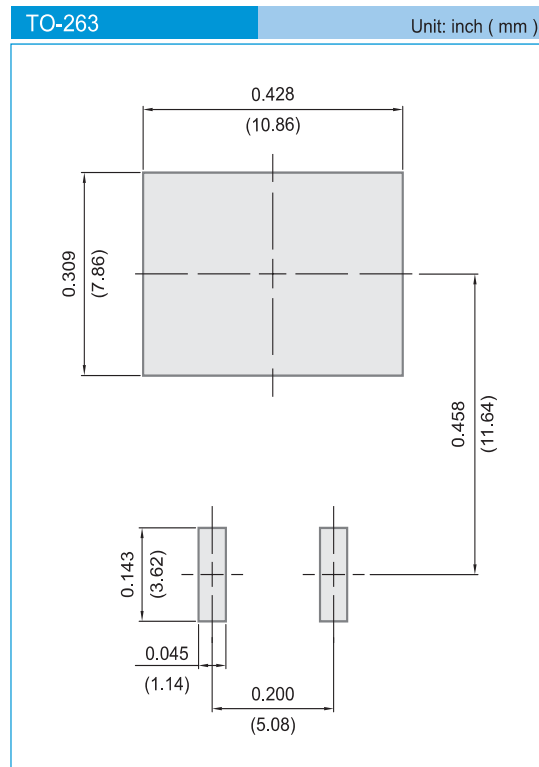


Fig.4 Typical Forward Characteristics



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MOUNTING PAD LAYOUT



ORDER INFORMATION

- Packing information
T/R - 0.8K per 13" plastic Reel



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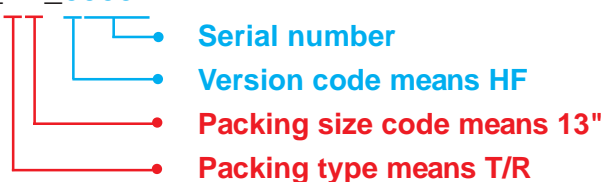
Part No_packing code_Version

SB4040LDC_R2_00001

For example :

RB500V-40_R2_00001

Part No.



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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