



LOW VF SCHOTTKY RECTIFIER

VOLTAGE 40 Volt CURRENT 40 Ampere

FEATURES

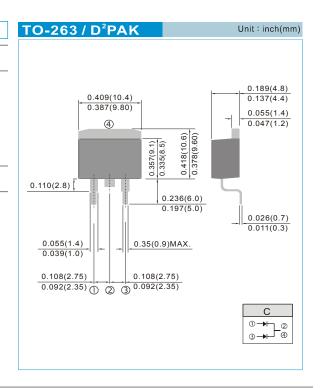
- · Low forward voltage drop, low power loss
- · High efficiency operation
- · Lead free in compliance with EU RoHS 2.0
- · Green molding compound as per IEC 61249 standard

MECHANICAL DATA

· Case: TO-263/D2PAK, Plastic

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

• Weight: 0.049 ounces, 1.38 grams



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

PARAMETER			VALUE	UNIT
Maximum repetitive peak reverse voltage		VRRM	40	V
Maximum average forward rectified current	per device per diode	l f(AV)	40 20	А
Peak forward surge current 8.3ms single half sine-wave superimposed on rated load	per diode	İFSM	250	Α
Typical thermal resistance (Note)		R⊚JC	3.3	°C/W
Operating junction and storage temperature range		ТJ, Tsтg	-55 to + 150	°C

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

PARAMETER	SYMBOL	TEST CONDITIONS		MIN.	TYP.	MAX.	UNIT
Breakdown voltage	VBR	I R=1mA		40	-	-	٧
Instantaneous forward voltage per diode	VF	IF= 5A IF=10A IF=20A	TJ=25°C	- - -	0.37 0.41 0.47	- - 0.50	V
		I F = 5A I F = 10A I F = 20A	T _J =125°C	- - -	0.25 0.31 0.39	- - 0.42	V
Reverse current per diode	l R	V _R =32V	TJ=25°C	-	126	-	μΑ
		V _R =40V	TJ=25°C TJ=125°C	- -	270 140	400 560	μA mA

Note: Semi-infinite heatsink.





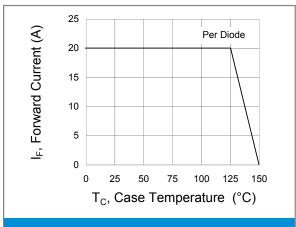


Fig.1 Forward Current Derating Curve

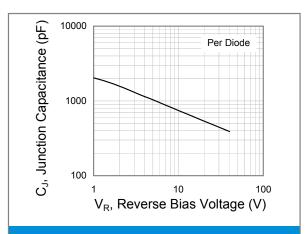


Fig.2 Typical Junction Capacitance

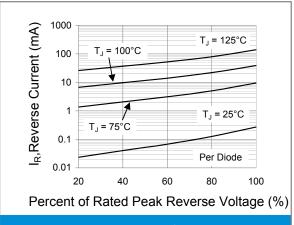


Fig.3 Typical Reverse Characteristics

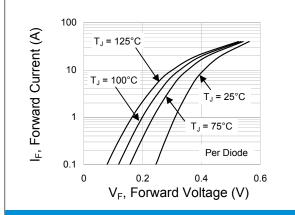
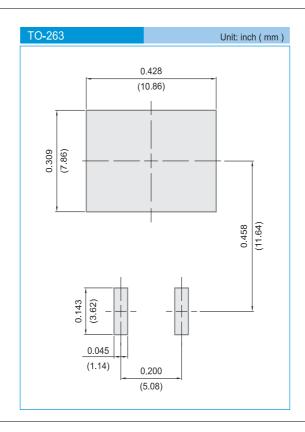


Fig.4 Typical Forward Characteristics





MOUNTING PAD LAYOUT



ORDER INFORMATION

• Packing information

T/R - 0.8K per 13" plastic Reel





Part No_packing code_Version

SB4040LDC_R2_00001

For example : RB500V-40_R2_00001 Part No. Serial number Version code means HF Packing size code means 13" Packing type means T/R

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)	В	13"	2				
Tube Packing (T/P)	Т	26mm	Х				
Tape and Reel (Right Oriented) (TRR)	S	52mm	Υ				
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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