

## SBM1060VDC

### ULTRA LOW VF SCHOTTKY RECTIFIER

VOLTAGE

#### CURRENT

**10 Ampere** 

FEATURES

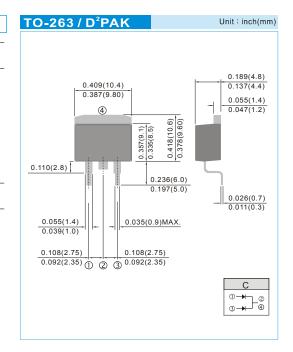
· Ultra Low forward voltage drop, low power loss

60 Volt

- · 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/D<sup>2</sup>PAK, 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		SYMBOL	VALUE	UNIT
Maximum repetitive peak reverse voltage		VRRM	60	v
Maximum rms voltage		VRMS	42	V
Maximum dc blocking voltage		VR	60	V
Maximum average forward rectified current	per device per diode	l f(AV)	10 5	А
Peak forward surge current : 8.3ms single half sine-wave superimposed on rated load	per diode	I FSM	120	A
Typical junction capacitance (VR=4V, f=1MHz)		CJ	300	рF
Typical thermal resistance per diode	(Note 1)	Røjc	3.5	°C/W
Operating junction temperature range		TJ	-55 to + 150	°C
Storage temperature range		Тѕтс	-55 to + 150	°C

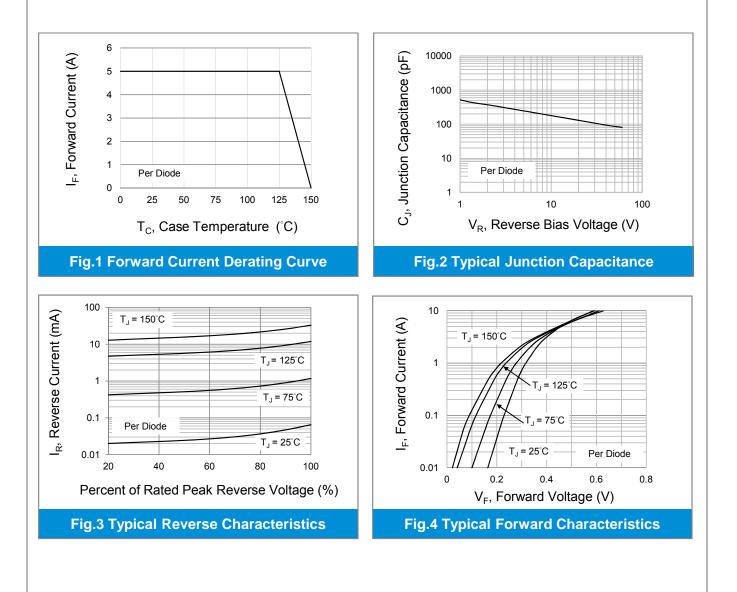
Note : 1. Mounted on infinite heatsink.



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

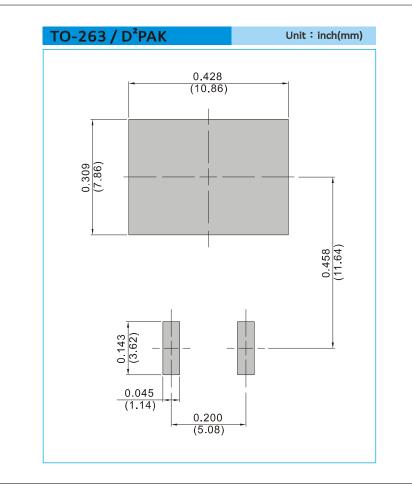
PARAMETER	SYMBOL	TEST CONDITIONS		MIN.	TYP.	MAX.	UNIT
Breakdown voltage per diode	Vbr	I R=0.5mA		60	-	-	V
Instantaneous forward voltage per diode	VF	F=1A   F=3A   F=5A   F=1A   F=3A	TJ=25℃ TJ=125℃		0.32 0.4 0.46 0.24 0.36	- 0.52 -	v v
Reverse current per diode	l r	V <sub>R</sub> =48V		-	40	-	μA
		Vr=60V	TJ=25°C TJ=125°C	-	- 12	220 -	μA mA





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### MOUNTING PAD LAYOUT



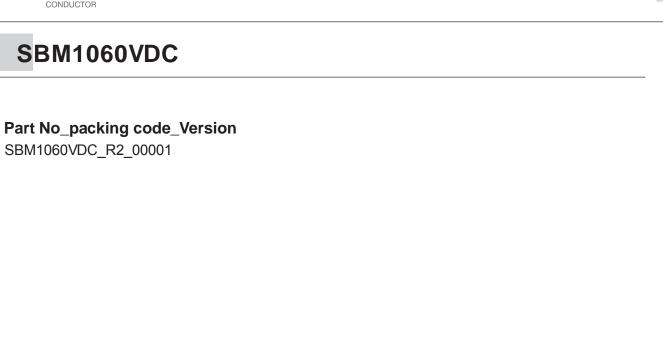
#### ORDER INFORMATION

Packing information

T/R - 0.8K per 13" plastic Reel

10 M





## 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 <sup>st</sup> Code	Packing size code	2 <sup>nd</sup> Code	HF or RoHS	1 <sup>st</sup> Code	2 <sup>nd</sup> ~5 <sup>th</sup> Code	
Tape and Ammunition Box (T/B)	Α	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	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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