

## SBM2060VDC

#### **ULTRA LOW VF SCHOTTKY RECTIFIER TO-263 / D<sup>2</sup>PAK** Unit:inch(mm) VOLTAGE 60 Volts CURRENT 20 Amperes **FEATURES** 0.189(4.8) • Ultra Low forward voltage drop, low power losses 0.409(10.4) 0.055(1.4) 0.047(1.2) · High efficiency operation 4 0.378(9.60) · Lead free in comply with EU RoHS 2011/65/EU directives 0.357(9.1) 0.110(2.8) 0.236(6.0) 0.026(0.7) **MECHANICAL DATA** 0.055(1.4) 0.035(0.9)MAX. Case : TO-263/D<sup>2</sup>PAK, Plastic Terminals : Solderable per MIL-STD-750, Method 2026 0.108(2.75) 0.092(2.35) ① ② ③ 0.092(2.35) Weight: 0.0514 ounces, 1.46 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)	20 10	А
Peak forward surge current : 8.3ms single half sine-wave superimposed on rated load	per diode	I FSM	150	A
Typical junction capacitance (VR=4V, f=1MHz)		CJ	480	рF
Typical thermal resistance per diode	(Note 1)	R⊚JC	3.5	°C/W
Operating junction temperature range		TJ	-55 to + 150	°C
Storage temperature range		Тѕтс	-55 to + 150	°C

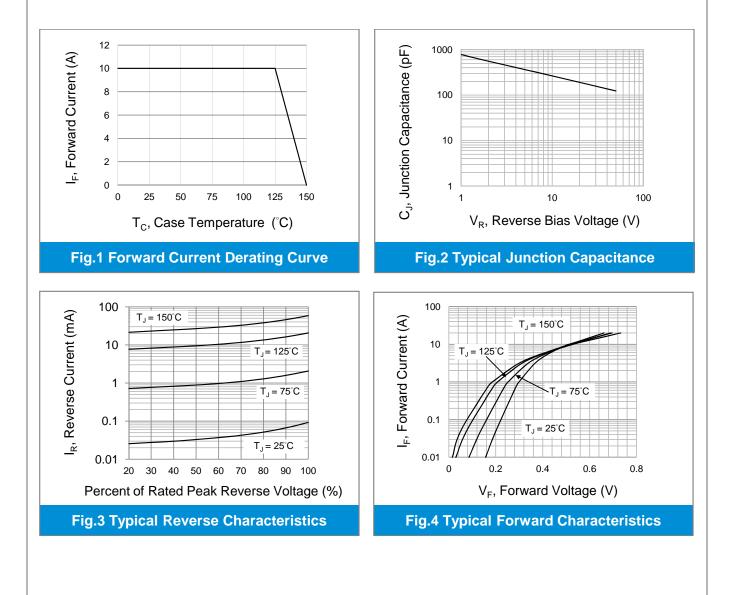
Note : 1. Mounted on infinite heatsink.



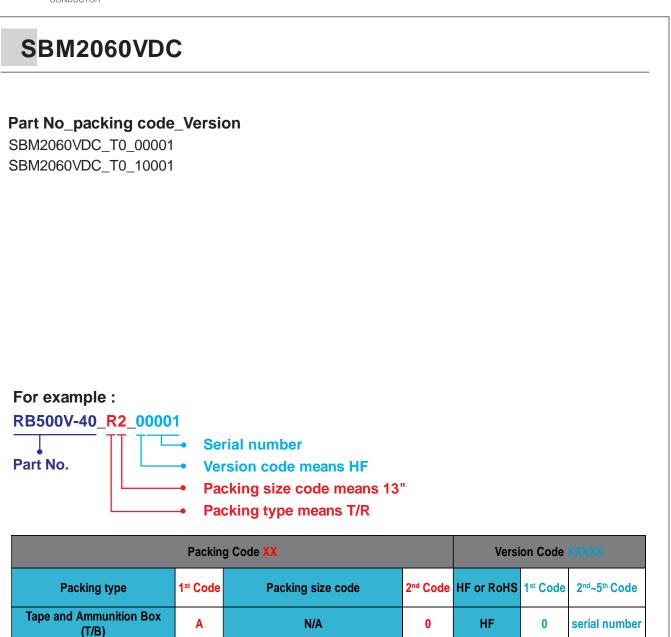
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### ELECTRICAL CHARACTERISTICS(TA=25°C unless otherwise noted)

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	I F=3A		-	0.37	-	
		I	TJ=25°C	-	0.41 0.51	- 0.57	V
		I	TJ=125℃	-	0.31 0.38	-	V
		I F=10A		-	0.53	-	
Reverse current per diode		Vr=42V		-	45	-	μA
	IR	Vr=60V	TJ=25°C TJ=125°C	-	95 20	220	μA mA







7"

13"

26mm

52mm

PANASERT T/B CATHODE UP

(PBCU) PANASERT T/B CATHODE DOWN

(PBCD)

1

2

Χ

Y

U

D

RoHS

1

serial number

Tape and Reel

(T/R) Bulk Packing

(B/P) Tube Packing

(T/P) Tape and Reel (Right Oriented)

(TRR) Tape and Reel (Left Oriented)

(TRL)

FORMING

R

В

т

S

L

F





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