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SBM2060VDC

ULTRA LOW VF SCHOTTKY RECTIFIER TO-263 / D²PAK Unit:inch(mm) VOLTAGE 60 Volt CURRENT 20 Ampere **FEATURES** 0.189(4.8) 0.137(4.4) • Ultra low forward voltage drop, low power loss 0.409(10.4) 0.055(1.4) • High efficiency operation 4 0.378(9.60) • Lead free in compliance with EU RoHS 2011/65/EU directive 0.357(9.1) 0.335(8.5) 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/D²PAK, 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. С ⊕-+]-@

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	I F(AV)	20 10	А
Peak forward surge current : 8.3ms single half sine-wave superimposed on rated load	per diode	IFSM	150	A
Typical junction capacitance (VR=4V, f=1MHz)		Ci	480	рF
Typical thermal resistance per diode	(Note 1)	Rejc	3.5	°C/W
Operating junction temperature range		TJ	-55 to + 150	°C
Storage temperature range		Тѕтс	-55 to + 150	°C

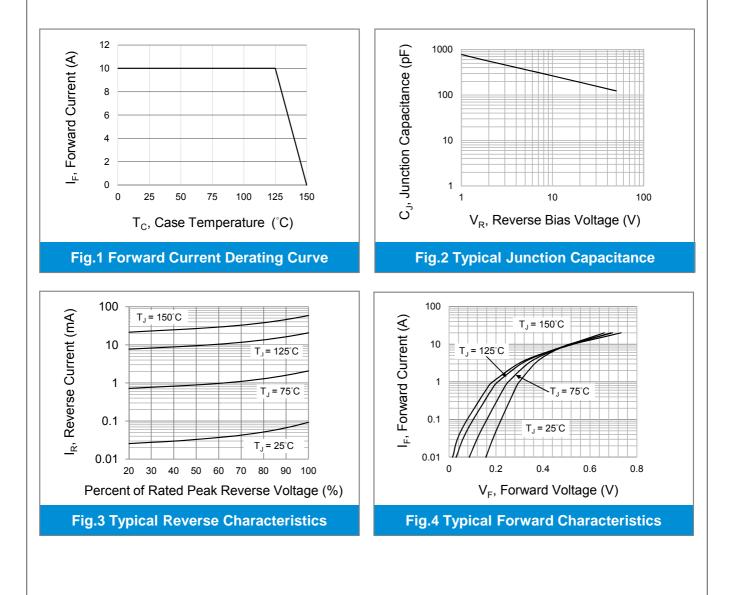
Note : 1. Mounted on infinite heatsink.



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

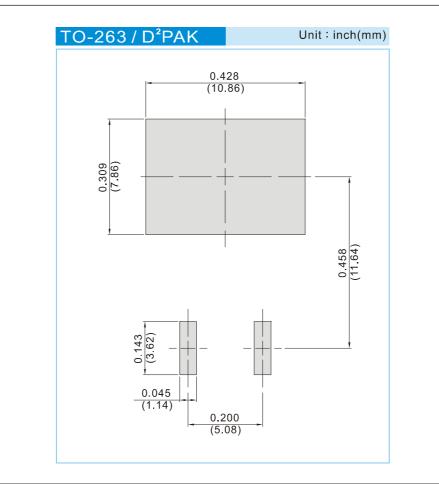
PARAMETER	SYMBOL	TEST CONDITIONS		MIN.	TYP.	MAX.	UNIT
Breakdown voltage per diode	Vbr	I R=0.5mA		60	-	-	V
Instantaneous forward voltage per diode	VF	I F=3A I F=5A I F=10A	TJ=25°C	- -	0.37 0.41 0.51	- - 0.57	V
		I F=3A I F=5A I F=10A	TJ=125℃	-	0.31 0.38 -	- -	V
Reverse current per diode	IR	VR=42V		-	45	-	μΑ
		Vr=60V	TJ=25°C TJ=125°C	-	95 20	220	μA mA





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MOUNTING PAD LAYOUT



ORDER INFORMATION

Packing information

T/R - 0.8K per 13" plastic Reel





For example :

RB500V-40_R2_00001

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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	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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