

# SBM3045VDC

#### **ULTRA LOW VF SCHOTTKY RECTIFIER**

VOLTAGE

30 Ampere

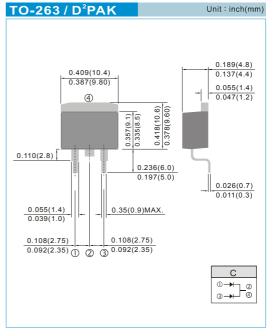
45 Volt CURRENT

#### **FEATURES**

- · Ultra 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 : D<sup>2</sup>PAK Molded Plastic Terminals : Solderable per MIL-STD-750, Method 2026 Polarity : As marked Weight: 0.049 ounces, 1.38 grams.



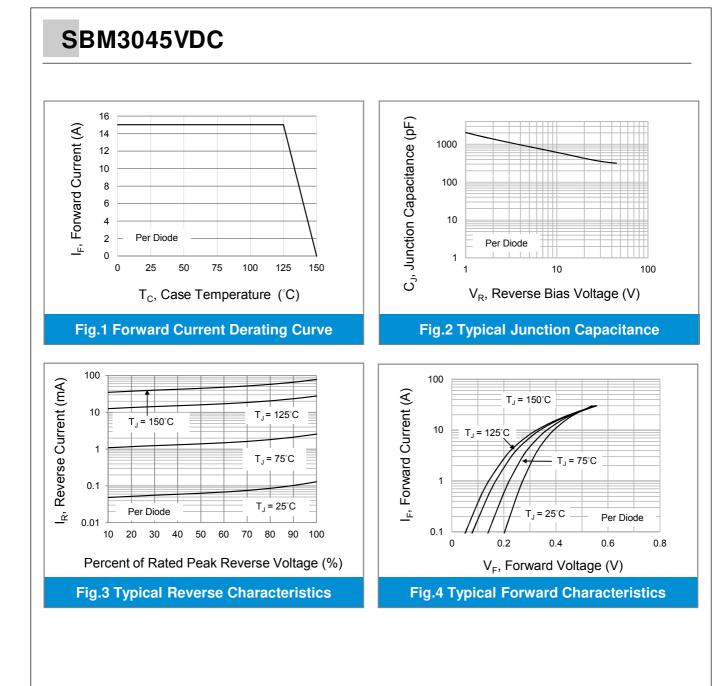
### MAXIMUM RATINGS(TA=25°C unless otherwise noted)

PARAMETER		SYMBOL	VALUE	UNIT
Maximum repetitive peak reverse voltage		Vrrm	45	V
Maximum average forward rectified current	per device per diode	l F(AV)	30 15	А
Peak forward surge current 8.3ms single half sine-wave superimposed on rated load	per diode	I FSM	300	А
Typical junction capacitance (VR=4V, f=1MHz)		Сл	1100	pF
Typical thermal resistance per diode	(Note 1)	Rejc	3.5	°C/W
Operating junction temperature range		TJ	-55 to + 150	°C
Storage temperature range		Тятд	-55 to + 150	°C

Note : 1. Mounted on infinite heatsink.

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

PARAMETER	SYMBOL	TEST CC	NDITIONS	MIN.	TYP.	MAX.	UNIT
Breakdown voltage per diode	Vbr	I R=0.5mA		45	-	-	V
Instantaneous forward voltage per diode	VF	I	TJ=25°C	- - -	0.28 0.35 0.44	- - 0.48	v
		I	TJ=125°C	- - -	0.17 0.27 0.4	- - -	v
Reverse current per diode	IR	VR=36V	TJ=25°C TJ=125°C	-	86 20	-	μA mA
		VR=45V	TJ=25°C TJ=125°C	-	- 28	320 -	μA mA



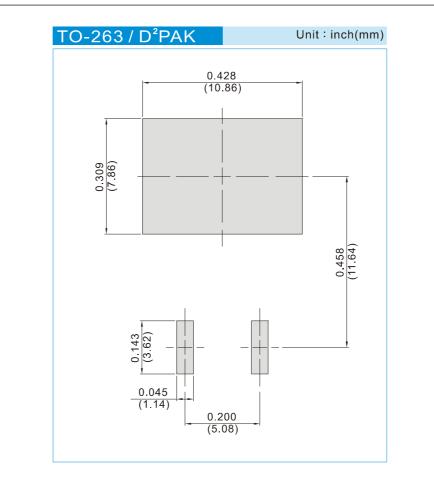






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#### MOUNTING PAD LAYOUT

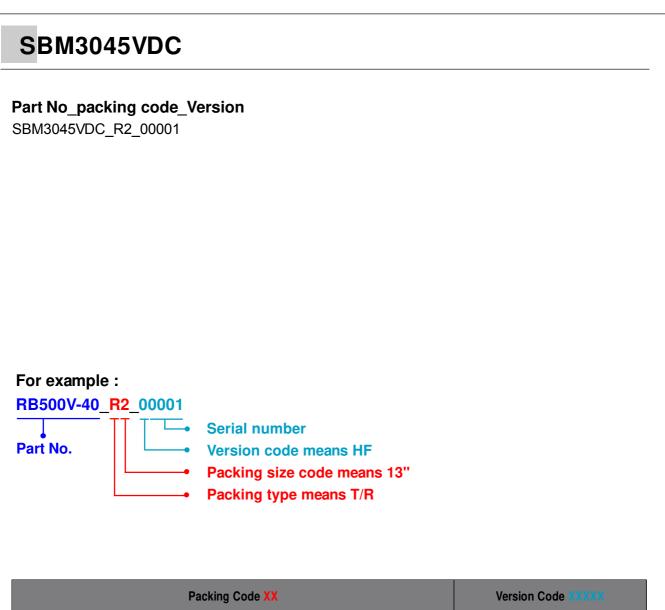


#### **ORDER INFORMATION**

Packing information

T/R - 0.8K per 13" plastic Reel





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~5<sup>th</sup> Code</sup>
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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