



SBM1045VSS

LOW VF SCHOTTKY RECTIFIER

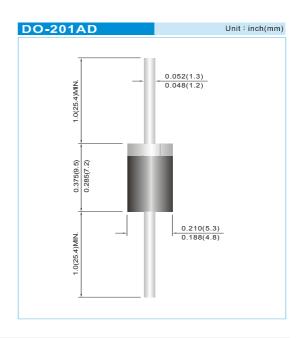
VOLTAGE 45 Volt CURRENT 10 Ampere

FEATURES

- · Ideal for automated placement
- · Low forward voltage drop, low power losses
- · High efficiency operation
- · Low thermal resistance
- · Lead free in compliance with EU RoHS 2011/65/EU directive

MECHANICAL DATA

- · Case: DO-201AD Molded plastic
- Terminals: Axial leads, solderable per MIL-STD-750, Method 2026
- Polarity: Color band denotes cathode
- Weight: 0.0402 ounces, 1.142 grams



Part Number: SBM1045VSS

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

PARAMETER			VALUE	UNIT
Maximum Recurrent Peak Reverse Voltage		VRRM	45	٧
Maximum RMS Voltage		VRMS	32	V
Maximum DC Blocking Voltage		VR	45	V
Maximum Average Rectified Output Current		l F(AV)	10	Α
Peak Forward Surge Current : 8.3ms Single Half Sine-Wave Superimposed On Rated Load		İFSM	200	Α
Typical Thermal Resistance ,Junction to Ambient Junction to Lead	(Note 1) (Note 2)	Roja Rojl	38 10	°C/W
Operating Junction Temperature Range And Storage Temperature Range		TJ,TSTG	-55 to + 150	°C

Notes: 1. Test without heat heatsink.

2. Mounted semi-infinite heatsink.

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

PARAMETER	SYMBOL	TEST CONDITIONS		MIN.	TYP.	MAX.	UNIT
Breakdown voltage	V _{BR}	I R=0.5mA		45	-	-	V
Instantaneous forward voltage	VF	IF=3A IF=5A IF=10A IF=3A IF=5A IF=10A	TA=25°C TA=125°C		0.34 0.37 0.44 0.26 0.32 0.42	- 0.47 - -	V
Reverse current	l _R	VR=36V	Ta=25°C	-	0.04	-	mA
		V _R =45V	Ta=25°C Ta=125°C	-	0.06 13	0.3	mA mA

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PAN

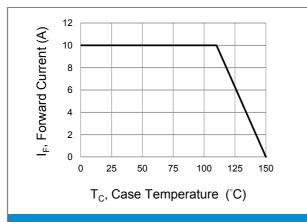


Fig.1 Forward Current Derating Curve

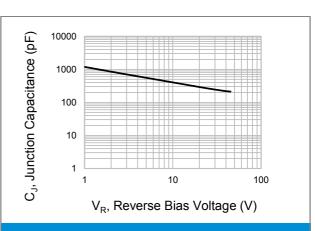


Fig.2 Typical Junction Capacitance

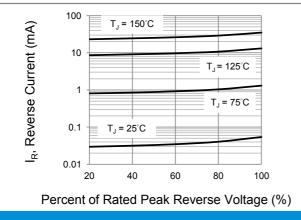


Fig.3 Typical Reverse Characteristics

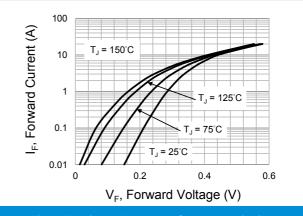


Fig.4 Typical Forward Characteristics

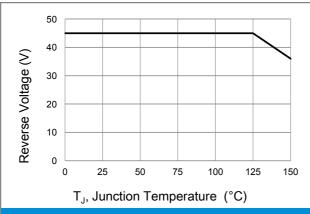
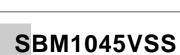


Fig.5 Operating Temperature Derating Curve

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Part No_packing code_Version

SBM1045VSS_AY_00001 SBM1045VSS_AY_10001 SBM1045VSS_B0_00001 SBM1045VSS_B0_10001 SBM1045VSS_R2_00001

SBM1045VSS_R2_10001

For example:



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)	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	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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