



LOW VF SCHOTTKY RECTIFIER

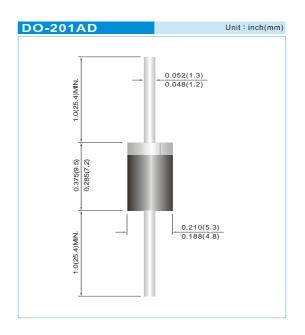
VOLTAGE45 VoltCURRENT10 Ampere

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



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

PARAMETER			VALUE	UNIT
Maximum Recurrent Peak Reverse Voltage		VRRM	45	V
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		IFSM	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	VBR	I R=0.5mA		45	-	-	V
Instantaneous forward voltage	VF	I F=3A I F=5A I F=10A	Ta=25°C	- - -	0.34 0.37 0.44	- - 0.47	V
		I	Ta=125°C	- - -	0.26 0.32 0.42	- - -	V
Reverse current	l R	VR=36V	Ta=25°C	-	0.04	-	mA
		VR=45V	T _A =25°C T _A =125°C	-	0.06 13	0.3	mA mA





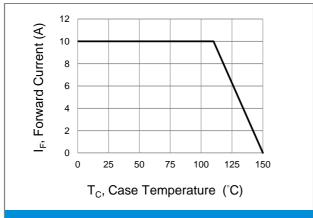


Fig.1 Forward Current Derating Curve

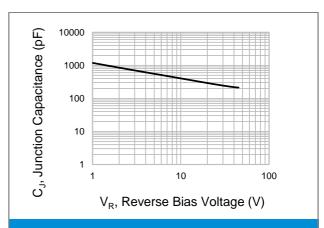


Fig.2 Typical Junction Capacitance

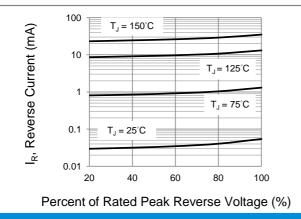


Fig.3 Typical Reverse Characteristics

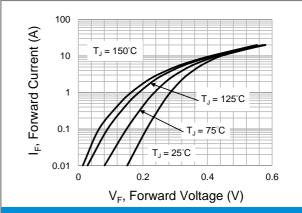


Fig.4 Typical Forward Characteristics

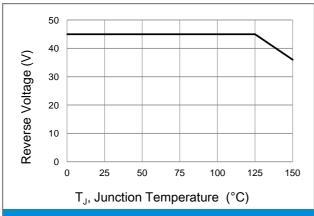


Fig.5 Operating Temperature Derating Curve



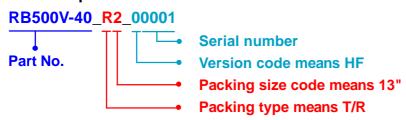


Part No_packing code_Version

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	Y			
Tape and Reel (Left Oriented) (TRL)	L	PANASERT T/B CATHODE UP (PBCU)	U			
FORMING	F	PANASERT T/B CATHODE DOWN (PBCD)	D			





Disclaimer

- Reproducing and modifying information of the document is prohibited without permission from Panjit International Inc..
- Panjit International Inc. reserves the rights to make changes of the content herein the document anytime without notification. Please refer to our website for the latest document.
- Panjit International Inc. disclaims any and all liability arising out of the application or use of any product including damages incidentally and consequentially occurred.
- Panjit International Inc. does not assume any and all implied warranties, including warranties
 of fitness for particular purpose, non-infringement and merchantability.
- Applications shown on the herein document are examples of standard use and operation.
 Customers are responsible in comprehending the suitable use in particular applications.
 Panjit International Inc. makes no representation or warranty that such applications will be suitable for the specified use without further testing or modification.
- The products shown herein are not designed and authorized for equipments requiring high level of reliability or relating to human life and for any applications concerning life-saving or life-sustaining, such as medical instruments, transportation equipment, aerospace machinery et cetera. Customers using or selling these products for use in such applications do so at their own risk and agree to fully indemnify Panjit International Inc. for any damages resulting from such improper use or sale.
- Since Panjit uses lot number as the tracking base, please provide the lot number for tracking when complaining.