



VOLTAGE

45 Volt CURRENT

FEATURES

- Ultra low forward voltage drop, low power losses
- High efficiency operation
- · Lead free in comply with EU RoHS 2011/65/EU directives

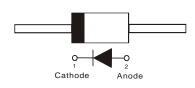
MECHANICAL DATA

Case : DO-201AD Molded Plastic

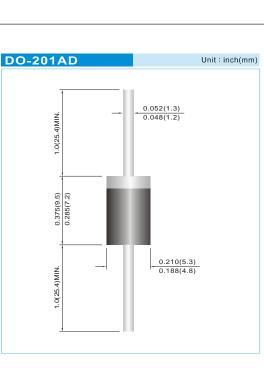
Terminals : Axial leads, Solderable per MIL-STD-750, Method 2026

Polarity : Color band denotes cathode

Weight : 0.04 ounces, 1.142 grams.



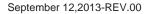
5 Ampere



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

PARAMETER	SYMBOL	VALUE	UNIT
Maximum repetitive peak reverse voltage	Vrrm	45	V
Maximum rms voltage	Vrms	32	V
Maximum dc blocking voltage	Vr	45	V
Maximum average forward rectified current	I F(AV)	5	А
Peak forward surge current : 8.3ms single half sine-wave superimposed on rated load	I FSM	120	А
Typical thermal resistance (Note 1)	Røja Røjl	32 14	°C/W
Operating junction temperature range	TJ	-55 to + 150	°C
Storage temperature range	Тѕтс	-55 to + 150	°C

Note:1.Thermal resistance from junction to ambient and from junction to lead at 0.375" (9.5 mm) lead length, P.C.B. mounted with 10cm x 10cm x 2pcs copper pads.

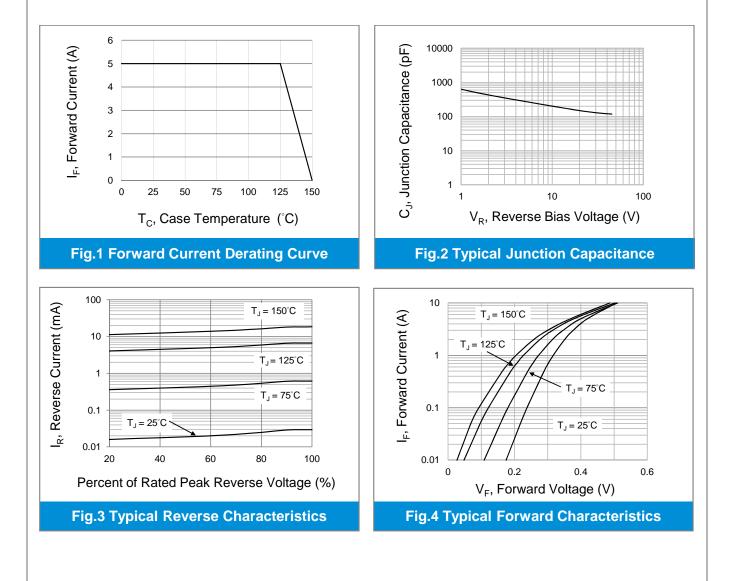




SBM545LSS

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=1A I F=3A I F=5A	Tj=25°C	- - -	0.32 0.38 0.43	- - 0.49	V
		I F=1A I F=3A	TJ=125°C	-	0.23 0.32	-	V
Deserved		Vr=36V	TJ=25°C	-	25	-	μA
Reverse current	IR	VR=45V	TJ=25°C TJ=125°C	-	- 7	210 -	μA mA







SBM545LSS

Part No_packing code_Version

SBM545LSS_AY_00001 SBM545LSS_AY_10001 SBM545LSS_B0_00001 SBM545LSS_B0_10001 SBM545LSS_R2_00001 SBM545LSS_R2_10001

For example :

RB500V-40_R2_00001

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)	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			





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