

Surface Mount Trench Schottky Rectifier Diode in DO-201AD

Features

- Metal-SemIconductor Junction with guard ring
- Epitaxial Construction
- Low forward voltage drop
- High current capability



Mechanical Data

Case: JEDEC DO-204AC(DO-201AD)molded plastic Lead free; RoHS compliant

■ Molding Compound Flammability Rating:

UL 94 V-0

■ **Terminals:** High temperature soldering guaranteed:

260 °C/10 sec. at terminals

Absolute Maximum Ratings Ratings at 25 °C, ambient temperature unless otherwise specified													
Parameter	Symbols	SB 520	SB 530	SB 540	SB 550	SB 560	SB 570	SB 580	SB 590	SB 5100	SB 5150	SB 5200	Units
Maximum repetitive peak reverse voltage	V RRM	20	30	40	50	60	70	80	90	100	150	200	Volts
Maximum RMS voltage	V RMS	14	21	28	35	42	49	56	63	70	105	140	Volts
Maximum DC blocking voltage	V DC	20	30	40	50	60	70	80	90	100	150	200	Volts
Maximum average forward rectified current 0.375"(9.5mm) lead length at T _A =50 °C	I F(AV)						5.0						Amps
Peak forward surge current 8.3ms single half sine-wave superimposed on rates load (JEDEC Method) TA=50°C	I FSM						150	1					Amps
Maximum instantaneous forward voltage @ 5.0A	VF		0.5		0	.7		0	1.8		0	.9	Volts
Maximum DC reverse current at TA =25℃	l _R	0.5						mA					
rated DC blocking voltage TA =100°C	IR .	20.0				10.0			2.0		шА		
Typical thermal resistance (Note 2)	R _{BJA}	25			°C/W								
Operating junction temperature range	TJ			55 to +125	i				-55	to +150			°C
Storage temperature range	T stg						-55 to +	150					°C

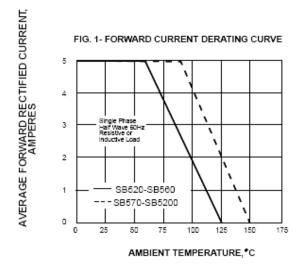
Notes 1: Thermal Resistance Junction to Ambient.

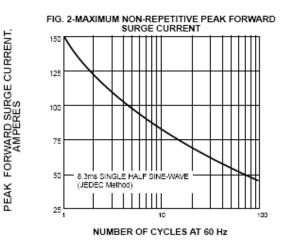
2:Measured at 1.0MHz and applied reverse voltage of 4.0v dc.

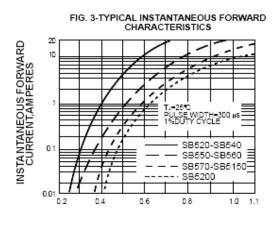
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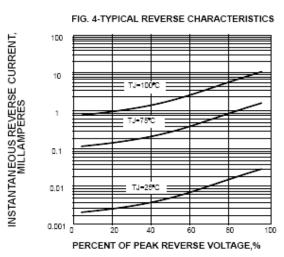


Typical Characteristics (T_{amb} = 25 °C unless otherwise specified)

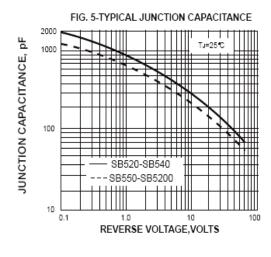


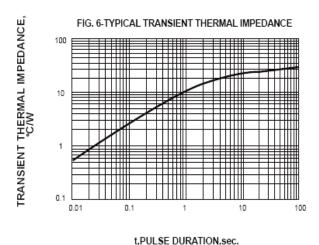








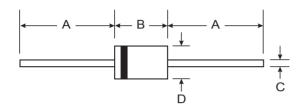




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Package Dimensions



DO-201AD					
Dim	Min	Max			
Α	25.40	_			
В	7.20	9.50			
С	1.20	1.30			
D 4.80 5.30					
All Dimensions in mm					

Ordering information

Order code	Package	Packaging option	Base quantity	Packaging specification
SB5xx	DO-201AD	Tape and BOX	1250pcs / BOX	

Revision history

Date	Revision	Changes
23-May-2012	1.0	Initial release

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