



Micro Commercial Components

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SB1245

12 Amp Schottky Barrier Rectifier 45 Volts

Features

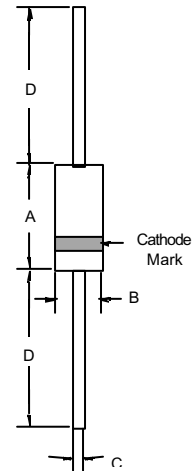
- Halogen free available upon request by adding suffix "-HF"
- Low Forward Voltage Drop
- High Current Capability and High Surge Current Capability
- Lead Free Finish/RoHS Compliant(Note 1) ("P" Suffix designates RoHS Compliant. See ordering information)
- Epoxy meets UL 94 V-0 flammability rating
- Moisture Sensitivity Level 1

Maximum Ratings

- Operating Temperature : -50°C to +150°C
- Storage Temperature: -50°C to +150°C

MCC Part Number	Device Marking	Maximum Recurrent Peak Reverse Voltage	Maximum RMS Voltage	Maximum DC Blocking Voltage
SB1245	SB1245	45V	31.5V	45V

DO-201AD



Electrical Characteristics @ 25°C Unless Otherwise Specified

Average Forward Current	$I_{F(AV)}$	12.0A	$T_A = 90^\circ\text{C}$
Peak Forward Surge Current	I_{FSM}	180A	8.3ms, half sine
Maximum Instantaneous Forward Voltage	V_F	.48V(Typ) .55V(Max)	$I_{FM} = 12.0\text{A};$ $T_A = 25^\circ\text{C}$
Maximum DC Reverse Current At Rated DC Blocking Voltage	I_R	0.1mA	$T_A = 25^\circ\text{C}$
Typical Thermal Resistance	R_{thJL}	10.5°C/W	

DIM	DIMENSIONS				NOTE
	INCHES		MM		
	MIN	MAX	MIN	MAX	
A	.287	.374	7.30	9.50	
B	.189	.208	4.80	5.30	
C	.048	.052	1.20	1.30	
D	1.000	---	25.40	---	

Notes: 1. High Temperature Solder Exemption Applied, see EU Directive Annex Notes 7.



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Ordering Information :

Device	Packing
Part Number-TP	Tape&Reel: 1.2Kpcs/Reel
Part Number-AP	Ammo Packing: 1.2Kpcs/Ammo Box
Part Number-BP	Bulk: 12Kpcs/Carton

Note : Adding "-HF" suffix for halogen free, eg. Part Number-TP-HF

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