



Schottky Diodes



- High frequency operation
- Low forward voltage drop
- High purity, high temperature epoxy encapsulation for enhanced mechanical strength and moisture resistance
- Guard ring for enhanced ruggedness and long term reliability
- Solder dip 275 °C max. 7s, per JESD 22-B106

Typical Applications

Typical applications are in switching power supplies, converters, freewheeling diodes, and reverse battery protection.

Mechanical Data

• Package: DO-201AD

Molding compound meets UL 94 V-0 flammability rating, RoHS-compliant

 Terminals: Tin plated leads, solderable per J-STD-002 and JESD22-B102

• Polarity: Color band denotes cathode end

■Maximum Ratings (Ta=25°C Unless otherwise specified)

PARAMETER	SYMBOL	UNIT	SB1240
Device Marking Code			SB1240
Repetitive Peak Reverse Voltage	VRRM	V	45
Average Rectified Output Current @60Hz sine wave, R-load, T _a =25 [°] C	lo	А	12
Surge(Non-repetitive)Forward Current @60Hz half sine wave, 1 cycle, T _a =25°C	IFSM	А	275
Current Squared Time @1ms≤t≤8.3ms Tj=25°C	l ² t	A ² s	315
Storage Temperature	T _{stg}	$^{\circ}$	-55 ~+150
Junction Temperature IN DC Forward Mode-Forward Operations, without reverse bias, t ≤1 h (Fig. 1)①	Tj	°C	-55 ~+200

NOTE

Meets the requirements of IEC 61215 Ed. 2 bypass diode thermal test.

■Electrical Characteristics (Ta=25°C Unless otherwise specified)

PARAMETER	SYMBOL	UNIT	TEST CONDITIONS	SB1240
Maximum instantaneous forward voltage drop per diode	VFM	٧	IFM=12.0A	0.55
Maximum DC reverse current at	IRRM1		VRM=VRRM T _a =25℃	0.5
rated DC blocking voltage per diode	IRRM2	mA	VRM=VRRM T _a =100°C	20



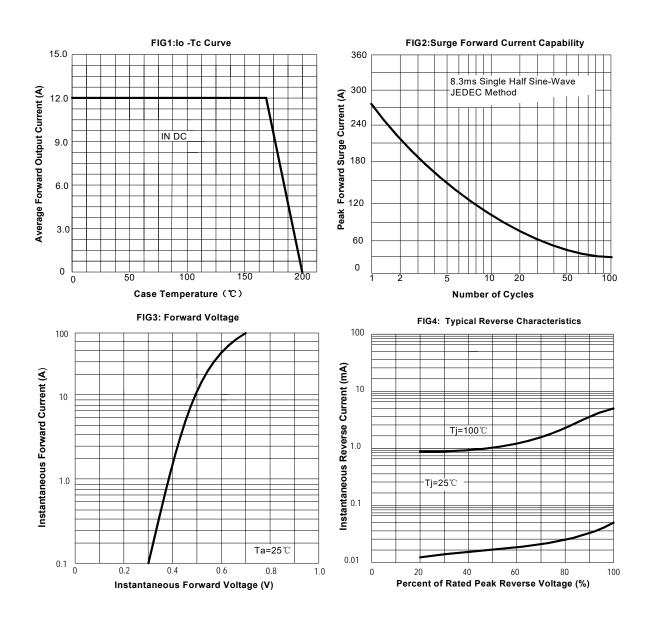
■Thermal Characteristics $(T_a=25 \degree C \text{ Unless otherwise specified})$

PARAMETER		SYMBOL	UNIT	SB1240
Thermal Resistance	Between junction and case	Rej-C	°CMV	1.9

■Ordering Information (Example)

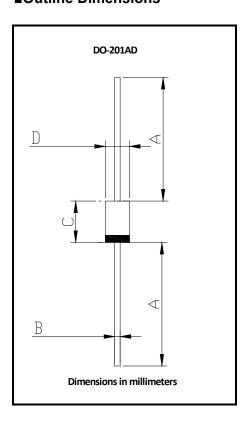
PREFERED P/N	UNIT WEIGHT(g)	MINIIMUM PACKAGE(pcs)	INNER BOX QUANTITY(pcs)	OUTER CARTON QUANTITY(pcs)	DELIVERY MODE
SB1240	Approximate 1.12	1250	4	6000	Reel

■Characteristics (Typical)





■Outline Dimensions



DO-201AD			
Dim	Min	Max	
Α	26.26	26.46	
В	1.212	1.228	
С	9.11	9.21	
D	5.05	5.15	





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