New Product

SB220 thru SB260

Vishay General Semiconductor

Schottky Barrier Rectifiers

勝特力材料 886-3-5753170 胜特力电子(上海) 86-21-34970699 胜特力电子(深圳) 86-755-83298787 Http://www. 100y. com. tw

VISHA

100Y.COM.T



.100Y.C

W.100Y.COM

PRIMARY CHARACTER	RISTICS
I _{F(AV)}	2.0 A
V _{RRM}	20 V to 60 V
I _{FSM}	60 A
VF	0.50 V, 0.68 V
T _J max.	125 °C, 150 °C

FEATURES

- Guardring for overvoltage protection
- · Very small conduction losses
- Extremely fast switching
- Low forward voltage drop
- High forward surge capability
- High frequency operation
- Solder dip 260 °C, 40 s
- Component in accordance to RoHS 2002/95/EC and WEEE 2002/96/EC

TYPICAL APPLICATIONS

For use in low voltage high frequency inverters, freewheeling, dc-to-dc converters, and polarity protection applications.

MECHANICAL DATA

Case: DO-204AC (DO-15)

Epoxy meets UL 94V-0 flammability rating

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

MAXIMUM RATINGS ($T_A = 25 \degree C u$	inless other	wise note	d)	WT	MM	-100Y.C	LING
PARAMETER	SYMBOL	SB220	SB230	SB240	SB250	SB260	UNIT
Maximum repetitive peak reverse voltage	V _{RRM}	20	30	40	50	60	V
Maximum RMS voltage	V _{RMS}	14	21	28	35	42	V
Maximum DC blocking voltage	V V _{DC}	20	30	40	50	60	V
Maximum average forward rectified current at 0.375" (9.5 mm) lead length (Fig. 1)	I _{F(AV)}	WWW	V.100Y.C	2.0	V	WWW.10	Α
Peak forward surge current 8.3 ms single half sine-wave superimposed on rated load	I _{FSM}	WW	W.100 T.	60	W	WWW.	A.
Maximum full load reverse current, full cycle average at T _A = 75 °C	I _{R(AV)}	WY	NN.100	30	IW	WWW	mA
Voltage rate of change (rated V _R)	dV/dt	N	10	10 000	1.1.1	VI -	V/µs
Operating junction temperature range	TJ	1	- 65 to + 125	NOY.CO	- 65 to	+ 150	°C
Storage temperature range	T _{STG}	I	WWW.	- 65 to + 150	Wn.	W	°C





RoHS COMPLIANT

SB220 thru SB260

WWW.100Y.C

DY.COM.T



Vishay General Semiconductor

ELECTRICAL CHARACTERIS	TICS	(T _A = 25 °C ι	unless oth	erwise n	oted)	W			
PARAMETER	TEST	CONDITIONS	SYMBOL	SB220	SB230	SB240	SB250	SB260	UNIT
Maximum instantaneous forward voltage ⁽¹⁾	2.0 A	M.TW	V _F	W.10	0.50	M.T.	0.	68	V
Maximum instantaneous reverse current at	N.CC	T _A = 25 °C	N.	-11	10Y.C	0.50			
rated DC blocking voltage ⁽¹⁾		T _A = 100 °C	I _R	<i>NN</i>	15	T	8	.0	mA
Typical junction capacitance		ONL	C,	WW.		170	A.		pF

Note:

	ERISTICS (Γ _A = 25 °C unle	ss otherwis	e noted)				
PARAMETER	WWW	SYMBOL	SB220	SB230	SB240	SB250	SB260	UNIT
Typical thermal resistance (1)	WW	R _{θJA} R _{θJL}	M.TW	W	45 14	oY.COM	I.TW	°C/W
Note: (1) Thermal resistance junction to	lead P.C.B. mou	nted 0.375" (9.5 mn	n) lead length	胜特之	力 材 業 力电子(上海 力电子(深圳 ttp://www	≸) 86-21-3) 86-755-	34970699 -83298787	

PREFERRED P/N	UNIT WEIGHT (g)	PREFERRED PACKAGE CODE	BASE QUANTITY	DELIVERY MODE
SB240-E3/54	0.398	54	4000	13" diameter paper tape and ree
SB240-E3/73	0.398	73	2000	Ammo pack packaging
			1	
WWW.	LOOY.COM.TW	WWW.LOOY.CO	M.TW	WW.100Y.COM.
WWW.	100Y.COM.TW	WWW.100Y.CO	OM.TW	WWW.100Y.COM.

RATINGS AND CHARACTERISTICS CURVES

(T_A = 25 °C unless otherwise noted)

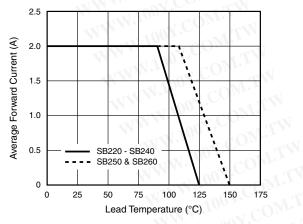
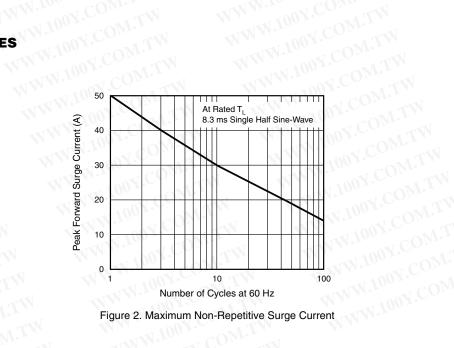


Figure 1. Forward Current Derating Curve







SB220 thru SB260

Vishay General Semiconductor

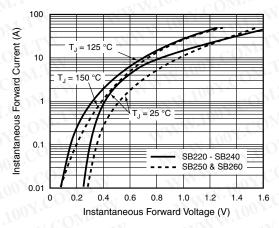


Figure 3. Typical Instantaneous Forward Characteristics

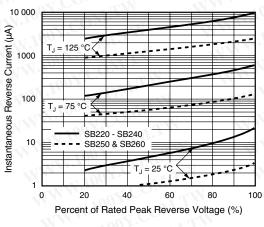


Figure 4. Typical Reverse Characteristics

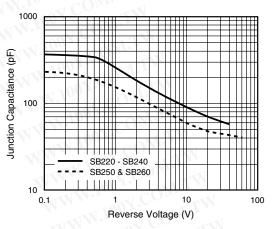


Figure 5. Typical Junction Capacitance

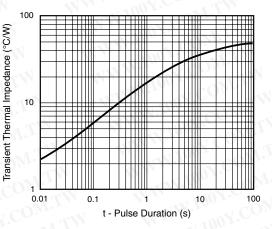
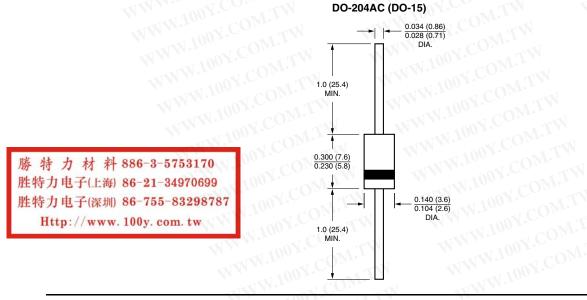


Figure 6. Typical Transient Thermal Impedance

PACKAGE OUTLINE DIMENSIONS in inches (millimeters)



For technical questions within your region, please contact one of the following: PDD-Americas@vishay.com, PDD-Asia@vishay.com, PDD-Europe@vishay.com



Vishay

Disclaimer

All product specifications and data are subject to change without notice.

Vishay Intertechnology, Inc., its affiliates, agents, and employees, and all persons acting on its or their behalf (collectively, "Vishay"), disclaim any and all liability for any errors, inaccuracies or incompleteness contained herein or in any other disclosure relating to any product.

Vishay disclaims any and all liability arising out of the use or application of any product described herein or of any information provided herein to the maximum extent permitted by law. The product specifications do not expand or otherwise modify Vishay's terms and conditions of purchase, including but not limited to the warranty expressed therein, which apply to these products.

No license, express or implied, by estoppel or otherwise, to any intellectual property rights is granted by this document or by any conduct of Vishay.

The products shown herein are not designed for use in medical, life-saving, or life-sustaining applications unless otherwise expressly indicated. Customers using or selling Vishay products not expressly indicated for use in such applications do so entirely at their own risk and agree to fully indemnify Vishay for any damages arising or resulting from such use or sale. Please contact authorized Vishay personnel to obtain written terms and conditions regarding products designed for such applications.

Product names and markings noted herein may be trademarks of their respective owners.

WWW.100Y.COM

勝 特 力 材 料 886-3-5753170 胜特力电子(上海) 86-21-34970699 胜特力电子(深圳) 86-755-83298787 Http://www.100y.com.tw

WW.100Y.COM.TW