MSKSEMI 美森科













ESD

 TV

TSS

MOV

GDT

PLED

B220A(MS)THRU B2100A(MS)

Product specification





Features

- The plastic package carries Underwriters Laboratory
 Flammability Classification 94V-0
- For surface mounted applications
- Metal silicon junction,majority carrier conduction
- Low power loss,high efficiency
- Built-in strain relief,ideal for automated placement
- High forward surge current capability
- High temperature soldering guaranteed:
 250 ℃/10 seconds at terminals

Mechanical Data

- Case: JEDEC DO-214AC molded plastic body
- Terminals: leads solderable per MIL-STD-750,
- Method 2026
- Polarity: Color band denotes cathode end
- Mounting Position: Any
- Weight: 0.070 grams

Reference News

Outline	Marking						
	B220A	B230A	B240A	B250A	B260A	B280A	B2100A
SMA	B220A(MS)	B230A(MS)	B240A(MS)	B250A(MS)	B260A(MS)	B280A(MS)	B2100A(MS)

MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

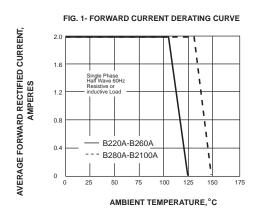
Ratings at 25°C ambient temperature unless otherwise specified.

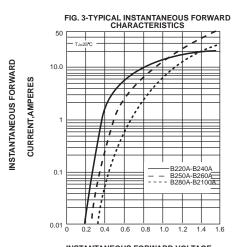
Single phase half-wave 60Hz, resistive or inductive load, for capacitive load current derate by 20%.

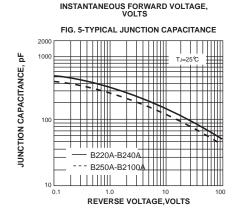
3 1										
Catalog Number		SYMBOLS	B220A(MS)	B230A(MS)	B240A(MS)	B250A(MS)	B260A(MS)	B280A(MS)	B2100A(MS)	UNITS
Maximum repetitive peak reverse voltage		VRRM	20	30	40	50	60	80	100	VOLTS
Maximum RMS voltage		VRMS	14	21	28	35	42	56	70	VOLTS
Maximum DC blocking voltage	Maximum DC blocking voltage		20	30	40	50	60	80	100	VOLTS
Maximum average forward rectified current at TL(see fig.1)		l(AV)	2.0					Amps		
Peak forward surge current 8.3ms single half sine-wave superimposed on rated load (JEDEC Method)		İFSM	50.0				Amps			
Maximum instantaneous forward voltage at 2.0A		VF		0.55		0.70)	0.8	5	Volts
Maximum DC reverse current at T _A =25 ℃		١.	lR 0.5						mA	
rated DC blocking voltage T _A =100 ℃	Ta=100 ℃	IR IR			10.0	5.0			111/1	
Typical junction capacitance (NOTE 1)		Cı		220	180		pF			
Typical thermal resistance (NOTE 2)		Reja	75.0				°C/W			
Operating junction temperature range		TJ,	-50 to +125 -50 to +150		+150	°C				
Storage temperature range		Тѕтс	-50 to +150			°C				

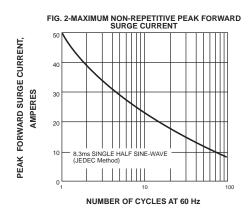
Note:1.Measured at 1MHz and applied reverse voltage of 4.0V D.C. 2.P.C.B. mounted with 0.2x0.2 "(5.0x5.0mm) copper pad area

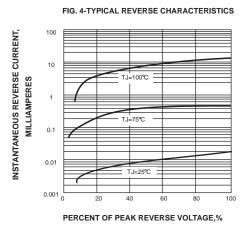
RATINGS AND CHARACTERISTIC CURVES

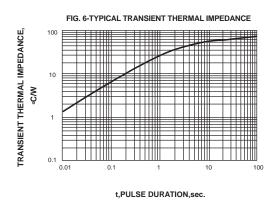




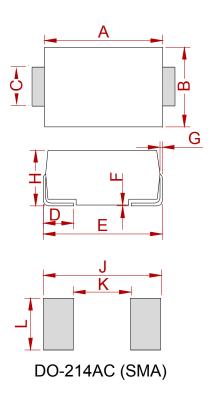








PACKAGE MECHANICAL DATA



	Dimensions							
Ref.	Millin	neters	Inches					
	Min.	Max.	Min.	Max.				
Α	4.25	4.65	0.167	0.183				
В	2.50	2.90	0.098	0.114				
С	1.35	1.65	0.053	0.065				
D	0.76	1.52	0.030	0.060				
E	4.93	5.28	0.194	0.208				
F	0.051	0.203	0.002	0.008				
G	0.15	0.31	0.006	0.012				
Н	1.98	2.41	0.078	0.095				
J	6.50		0.256					
K		2.30		0.090				
L	1.70		0.067					

REEL SPECIFICATION

P/N	PKG	QTY
B220A(MS)THRU B2100A(MS)	SMA	2000



Attention

- Any and all MSKSEMI Semiconductor products described or contained herein do not have specifications that can handle applications that require extremely high levels of reliability, such as life-support systems, aircraft's control systems, or other applications whose failure can be reasonably expected to result in serious physical and/or material damage. Consult with your MSKSEMI Semiconductor representative nearest you before using any MSKSEMI Semiconductor products described or contained herein in such applications.
- MSKSEMI Semiconductor assumes no responsibility for equipment failures that result from using products at values that exceed, even momentarily, rated values (such as maximum ratings, operating condition ranges, or other parameters) listed in products specifications of any and all MSKSEMI Semiconductor products described or contained herein.
- Specifications of any and all MSKSEMI Semiconductor products described or contained herein stipulate the performance, characteristics, and functions of the described products in the independent state, and are not guarantees of the performance, characteristics, and functions of the described products as mounted in the customer's products or equipment. To verify symptoms and states that cannot be evaluated in an independent device, the customer should always evaluate and test devices mounted in the customer'sproducts or equipment.
- MSKSEMI Semiconductor. strives to supply high-quality high-reliability products. However, any and all semiconductor products fail with someprobability. It is possiblethat these probabilistic failures could give rise to accidents or events that could endanger human lives, that could give rise to smoke or fire, or that could cause damage to other property. When designing equipment, adopt safety measures so that these kinds of accidents—or events cannot occur. Such measures include but are not limited to protective circuits anderror prevention circuitsfor safedesign, redundant design, and structural design.
- In the event that any or all MSKSEMI Semiconductor products (including technical data, services) described or contained herein are controlled under any of applicable local export control laws and regulations, such products must not be exported without obtaining the export license from theauthorities concerned in accordance with the above law.
- No part of this publication may be reproduced or transmitted in any form or by any means, electronic or mechanical, including photocopying and recording, or any information storage or retrieval system, or otherwise, without the prior written permission of MSKSEMI Semiconductor.
- Information (including circuit diagrams and circuit parameters) herein is for example only; it is not guaranteed for volume production. MSKSEMI Semiconductor believes information herein is accurate and reliable, but no guarantees are made or implied regarding its use or any infringements of intellectual property rights or other rights of third parties.
- Any and all information described or contained herein are subject to change without notice due to product/technology improvement, etc. Whendesigning equipment, referto the "Delivery Specification" for the MSKSEMI Semiconductor productthat you intend to use.