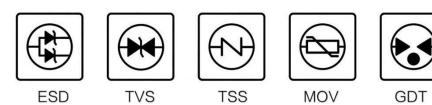
# **MSKSEMI**美森科





# B320A(MS) THRU B3100A(MS)

Product specification





#### Features

- The plastic package carries Underwriters Laboratory Flammability Classification 94V-0
- For surface mounted applications
- Low reverse leakage
- Built-in strain relief, ideal for automated placement
- High forward surge current capability
- High temperature soldering guaranteed: 250°C/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: 0.002 ounce, 0.07 grams

Outline	Marking						
	B320A	B330A	B340A	B350A	B360A	B380A	B3100A
SMA	B320A(MS)	B330A(MS)	B340A(MS)	B350A(MS)	B360A(MS)	B380A(MS)	B3100A(MS)

#### **Reference News**

# MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Ratings at 25  $^\circ\!\mathrm{C}$  ambient temperature unless otherwise specified.

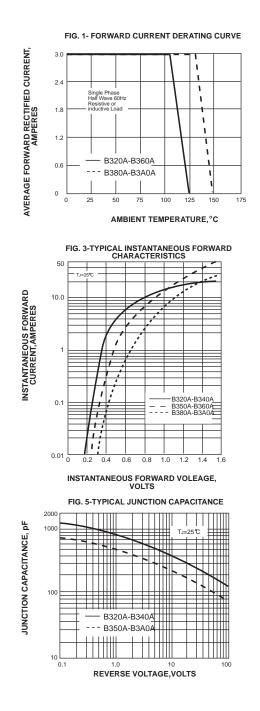
Single phase half-wave 60Hz, resistive or inductive load, for capacitive load current derate by 20%.

Catalog Number		SYMBOLS	B320A(MS)	B330A(MS)	B340A(MS)	B350A(MS)	B360A(MS)	B380A(MS)	B3100A(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		VDC	20	30	40	50	60	80	100	VOLTS
Maximum average forward rectified current at TL(see fig.1)		l(AV)	3.0						Amps	
Peak forward surge current 8.3ms single half sine-wave superimposed on rated load (JEDEC Method)		IFSM	100.0					Amps		
Maximum instantaneous forward voltage at 3.0A		Vf	0.55 0.70 0.85				Volts			
Maximum DC reverse current at TA=25°C			0.5					mA		
rated DC blocking voltage	<b>Ta=100</b> ℃	R	20 10				1107			
Typical junction capacitance (NOTE 1)		CJ	500 300				pF			
Typical thermal resistance (NOTE 2)		Reja	55.0					°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 areas



#### **RATINGS AND CHARACTERISTIC CURVES**



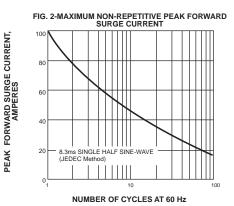
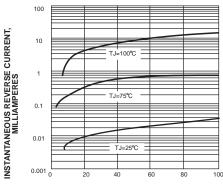
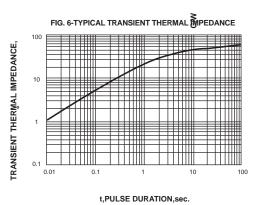


FIG. 4-TYPICAL REVERSE CHARACTERISTICS

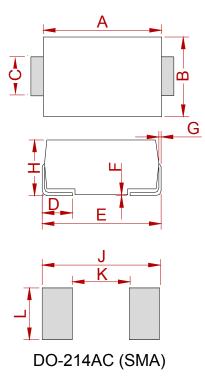






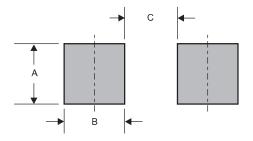


## PACKAGE MECHANICAL DATA



	Dimensions						
Ref.	Millir	neters	Inches				
	Min.	Max.	Min.	Max.			
А	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			
Е	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				
К		2.30		0.090			
L	1.70		0.067				

# Suggested solder pad layout



Dimensions in inches and (millimeters)

PACKAGE	А	В	С
SMA	0.110 (2.80)	0.063 (1.60)	0.087 (2.20)

#### REELSPECIFICATION

P/N	PKG	QTY
B320A(MS) THRU B3100A(MS)	SMA	2000



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