MSKSEMI















ESD

TVS

TSS

MOV

GDT

PLED

Broduct data sheet



Semiconductor

Compiance

VOLTAGE RANGE 50 to 1000 Volts CURRENT 3.0 Ampere



SMB

FEATURES

- * Ideal for surface mount applications
- * Easy pick and place
- * Built-in strain relief
- * Low forward voltage drop

MECHANICAL DATA

- * Case: Molded plastic
- * Epoxy: UL 94V-0 rate flame retardant
- * Metallurgically bonded construction
- * Polarity: Color band denotes cathode end
- * Mounting position: Any
- * Weight: 0.093 grams

MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Rating 25°C ambient temperature unless otherwies specified. Single phase half wave, 60Hz, resistive or inductive load. For capacitive load, derate current by 20%.

P/N(MARK)	S3AB	S3BB	S3DB	S3GB	S3JB	S3KB	S3MB	UNITS
Maximum Recurrent Peak Reverse Voltage		100	200	400	600	800	1000	V
Maximum RMS Voltage		70	140	280	420	560	700	V
Maximum DC Blocking Voltage		100	200	400	600	800	1000	V
Maximum Average Forward Rectified Current		•				,		
At TL=75℃ 3.0					Α			
Peak Forward Surge Current, 8.3 ms single half sine-wave								
superimposed on rated load (JEDEC method)	100				Α			
Maximum Instantaneous Forward Voltage at 3.0A		1.10					V	
Maximum DC Reverse Current Ta=25°C				5.0				μА
at Rated DC Blocking Voltage Ta=125°C				250				μΑ
Typical Junction Capacitance (Note1)		60				pF		
Typical Thermal Resistance R JL (Note 2)		13				°C/W		
Operating and Storage Temperature Range T _J , Tsτc		-65—+150				°C		

NOTES:

- 1. Measured at 1MHz and applied reverse voltage of 4.0V D.C.
- 2. Thermal Resistance Junction to Lead.



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RATING AND CHARACTERISTIC CURVES (S3AB THRU S3MB)

CHARACTERISTICS 50 INSTANTANEOUS FORWARD CURRENT, (A) 10 3.0 1.0 Pulse Width 300us 1% Duty Cycle 0.1

FORWARD VOLTAGE,(V)

1.2 1.3

FIG.1-TYPICAL FORWARD

FIG.2-TYPICAL FORWARD CURRENT DERATING CURVE

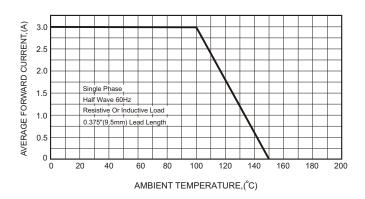
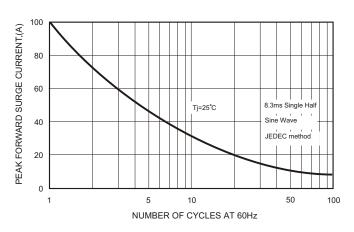
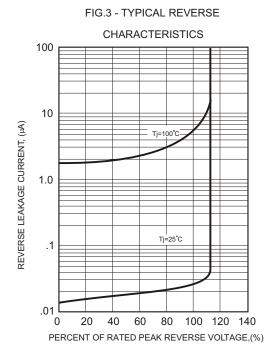
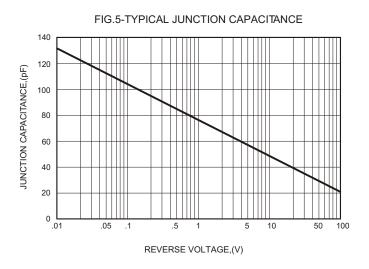


FIG.4-MAXIMUM NON-REPETITIVE FORWARD SURGE CURRENT

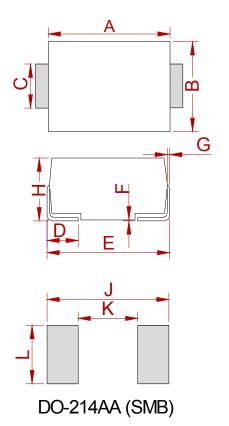








PACKAGE MECHANICAL DATA



	Dimensions					
Ref.	Millimeters		Inches			
	Min.	Max.	Min.	Max.		
Α	4.25	4.75	0.167	0.187		
В	3.30	3.94	0.130	0.155		
С	1.85	2.21	0.073	0.087		
D	0.76	1.52	0.030	0.060		
Е	5.08	5.59	0.200	0.220		
F	0.051	0.203	0.002	0.008		
G	0.15	0.31	0.006	0.012		
Н	2.11	2.44	0.083	0.096		
J	6.80		0.270			
K		2.60		0.100		
L	2.40		0.090			

REEL SPECIFICATION

P/N	PKG	QTY
S3AB THRU S3MB	SMB	3000



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