

Surface Mount Super Fast Rectifiers

(Pb) Lead(Pb)-Free

Features:

- * For Surface Mount Application
- * Low Reverse Current
- * High Current Capability

Mechanical Data:

- * Case : Molded Plastic
- * Terminals : Solder Plated Terminal-Solderable per MIL-STD-202, Method 208
- * Polarity : Indicated by cathode band
- * Weight : 0.093 grams

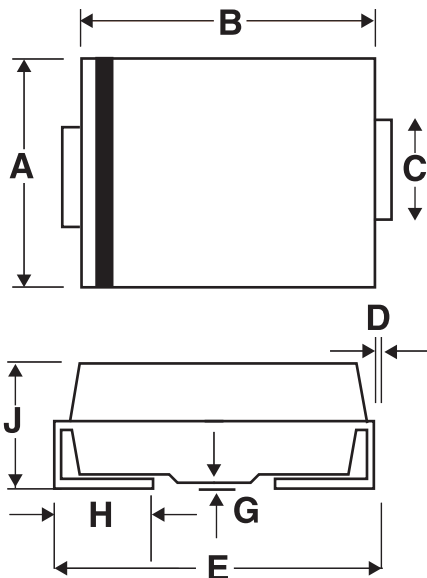
REVERSE VOLTAGE
50 TO 600 VOLTS
FORWARD CURRENT
2.0 AMPERE



SMB(DO-214AA)

SMB Outline Dimension

Unit:mm



SMB		
Dim	Min	Max
A	3.30	3.94
B	4.06	4.80
C	1.96	2.21
D	0.15	0.31
E	5.00	5.59
G	0.10	0.20
H	0.76	1.52
J	2.00	2.62

Maximum Ratings and Electrical Characteristics

Rating 25°C Ambient Temperature Unless Otherwise Specified.

Single Phase Half Wave, 60Hz , Resistive or Inductive Load.

For Capacitive Load, Derate Current by 20%.

Characteristics	Symbol	ES2A	ES2B	ES2C	ES2D	ES2F	ES2G	ES2J	Unit	
Maximum Recurrent Peak Reverse Voltage	V _{RRM}	50	100	150	200	300	400	600	V	
Maximum RMS Voltage	V _{RMS}	35	70	105	140	210	280	420		
Maximum DC Blocking Voltage	V _{DC}	50	100	150	200	300	400	600		
Maximum Average Forward Rectifier Current	I _{F(AV)}	2.0							A	
Peak Forward Surge Current, 8.3 ms Single Half Sine-Wave Superimposed on Rated Load (JEDEC Method)	I _{FSM}	50							A	
Maximum Instantaneous At 2.0A DC	V _F	0.98				1.30		1.75	V	
Maximum DC Reverse Current @T _A =25°C At Rated DC Blocking Voltage @T _A =100°C	I _R	5.0				100				μA
Maximum Reverse Recovery Time (Note2)	T _{rr}	35							ns	
Typical Junction Capacitance (Note1)	C _J	40				25				pF
Typical Thermal Resistance	R _{θJC}	30							°C/W	
Operating Temperature Range	T _J	-55 to +150							°C	
Storage Temperature Range	T _{STG}	-55 to +150							°C	

NOTE 1.Measured at 1.0MHz and applied reverse voltage of 4.0V DC.

2.Measured with I_F=0.5A, I_R=1A, I_{RR}=0.25A.