



## RS5AB~RS5MB FAST RECOVERY RECTIFIER

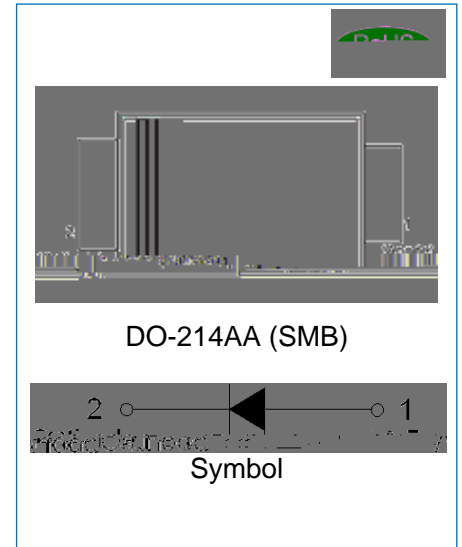
Rev.2.4

### DESCRIPTION:

- ◇ Plastic package has underwriters laboratory flammability classification 94V-0
- ◇ For surface mounted applications in order to optimize board space
- ◇ Glass passivated junction
- ◇ Lead free in compliance with EU RoHS 2011/65/EU directive
- ◇ Fast recovery time

### MECHANICAL DATA

- ◇ Case: JEDEC DO-214AA molded plastic
- ◇ Terminals: Solder plated, solderable per J-STD-002
- ◇ Polarity: Color band denotes cathode end
- ◇ Weight: 0.1 gram



### ABSOLUTE MAXIMUM RATING AND ELECTRICAL CHARACTERISTICS

(Rating at 25 ambient temperature unless otherwise specified.)

Parameter	Symbol	RS5AB	RS5BB	RS5DB	RS5GB	RS5JB	RS5KB	RS5MB	Unit
Maximum repetitive peak reverse voltage	$V_{RRM}$	50	100	200	400	600	800	1000	V
Maximum RMS voltage	$V_{RMS}$	35	70	140	280	420	560	700	V
Maximum DC blocking voltage	$V_{DC}$	50	100	200	400	600	800	1000	V
Maximum average forward current at $T_L=75$	$I_{F(AV)}$	5.0							A
Peak forward surge current: 8.3ms single half sine-wave superimposed on rated load	$I_{FSM}$	120							A
Maximum forward voltage @ $I_F=5.0A$	$V_F$	1.3							V
Maximum DC reverse current at rated DC blocking voltage	$T_j=25$	5.0							A
	$T_j=150$	500							
Typical junction capacitance $V_R=4.0V, f=1MHz$	$C_J$	65							pF
Operating junction and storage temperature range	$T_j, T_{stg}$	-55 to +150							
Maximum reverse recovery time $I_F=0.5A, I_R=1A, I_{rr}=0.25A$	$t_{rr}$	150				250	500		ns

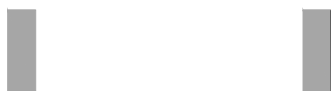
**THERMAL RESISTANCES**

Symbol	Parameter	RS5AB	RS5BB	RS5DB	RS5GB	RS5JB	RS5KB	RS5MB	Unit
$R_{th(j-L)}$	Junction to lead(note1)	15							/W

Note1 Thermal resistance from junction to lead mounted on P.C.B. with 4.0 mm x 4.0 mm copper pad areas.

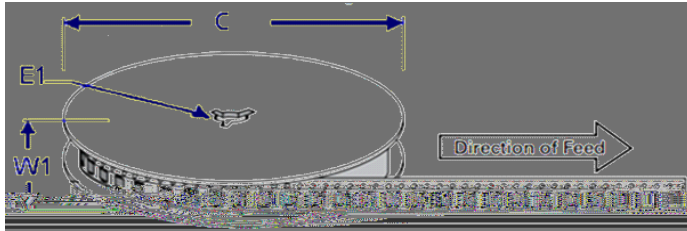
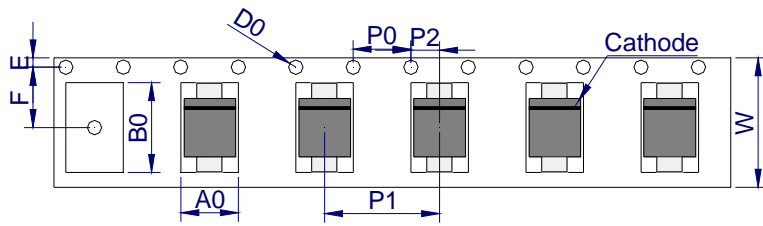
**MARKING**

**PACKAGE MECHANICAL DATA**



Ref.	Dimensions			
	Millimeters		Inches	
	Min.			
A				
B				
C				
D	0.95			
E				
F	0.051			
G	0.15			

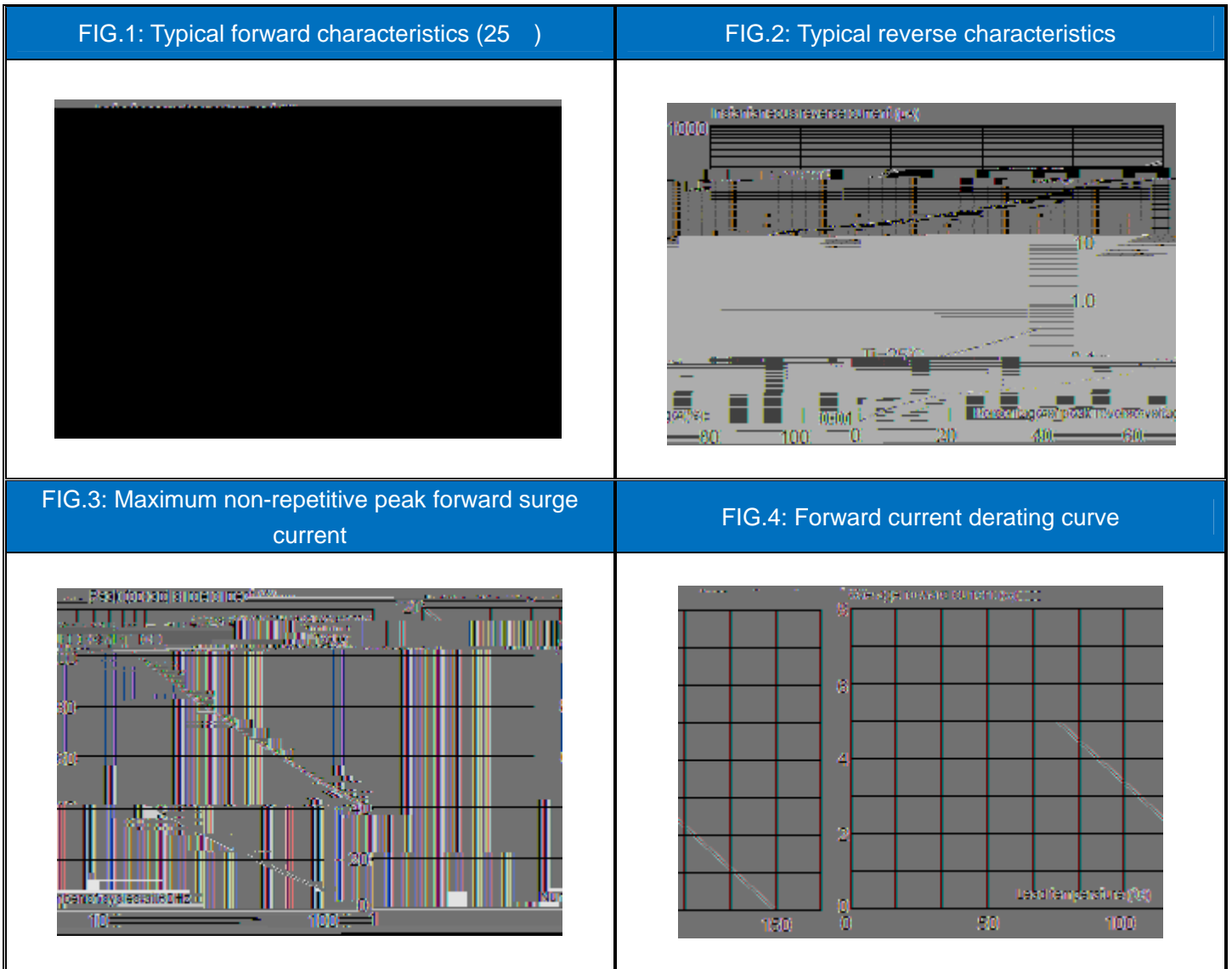
**TAPE AND REEL SPECIFICATION-SMB**



Ref.	Dimensions	
	Millimeters	Inches
A0	3.76 ± 0.3	
B0	5.69± 0.3	
C	330.0	
D0	1.55 ± 0.1	
E	1.75 ± 0.2	
E1	13.3 ± 0.3	
F	5.5 ± 0.2	
P0	4.00 ± 0.2	
P1	8.00 ± 0.2	
P2	2.00 ± 0.2	
W	12.0± 0.2	
	15.7 ± 2.0	

OUTLINE	UNIT WEIGHT (g/PCS) typ.	REEL (PCS)	PER CARTON (PCS)	REEL DIAMETERS (mm)
TAPING	0.1	3,000	48,000	330

CHARACTERISTICS CURVE



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