





An ISO/TS 16949, ISO 9001 and ISO 14001 Certified Company

SURFACE MOUNT FAST RECOVERY RECTIFIER

RS1A - RS1M



DO214-AC Surface Mount Package

Fast Recovery Times for High Efficiency

ABSOLUTE MAXIMUM RATINGS (T_a=25°C)

1			1					
SYMBOL	RS1A	RS1B	RS1D	RS1G	RS1J	RS1K	RS1M	UNIT
V_{RRM}	50	100	200	400	600	800	1000	V
V_{RMS}	35	70	140	280	420	560	700	V
V_{DC}	50	100	200	400	600	800	1000	V
_	4.0							
I _(AV)	1.0							A
I _{FSM}	30							Α
V _F 1.3					V			
1	5.0							μΑ
IR	150							μΑ
C _j	typ 12				pF			
R _{th (J-L)}	typ 32			°C/W				
T_RR		1:	50		250	50	00	ns
T _j	- 55 to +150			ô				
T _{stg}	- 55 to +150			°C				
	$\begin{array}{c} V_{RRM} \\ V_{RMS} \\ V_{DC} \\ \\ I_{(AV)} \\ \\ I_{FSM} \\ \\ V_{F} \\ \\ I_{R} \\ \\ C_{j} \\ \\ R_{th (J-L)} \\ \\ T_{RR} \\ \\ T_{j} \\ \end{array}$	V _{RRM} 50 V _{RMS} 35 V _{DC} 50 I _(AV) I _{FSM} V _F I _R C _j R _{th (J-L)} T _{RR} T _j	V _{RRM} 50 100 V _{RMS} 35 70 V _{DC} 50 100 I _(AV) I _{FSM} V _F I _R C _j R _{th (J-L)} T _{RR} 1	V _{RRM} 50 100 200 V _{RMS} 35 70 140 V _{DC} 50 100 200 I _(AV) I _{FSM} V _F I _R C _j R _{th (J-L)} T _{RR} 150 T _j - 5	$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	$\begin{array}{c ccccccccccccccccccccccccccccccccccc$

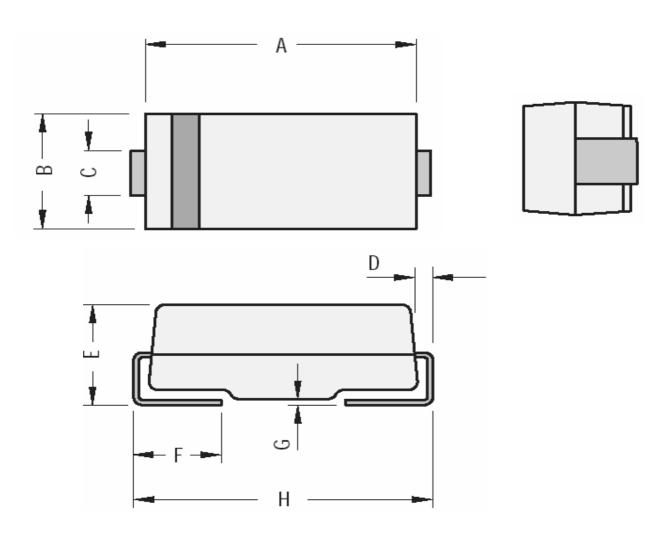
Notes 1. Measured @ 1MHz and Applied Reverse Voltage of 4.0V

- 2. Thermal Resistance from Junction to Lead Mounted on P.C.B. with 0.3" x 0.3" (8 x 8mm) Coppper Pad Areas
- 3. Reverse Recovery Test Conditions : $I_F = 0.5A$, $I_R = 1.0A$, $I_{RR} = 0.25A$

RS1A_RS1M Rev030105E

DO214-AC Surface Mount Package

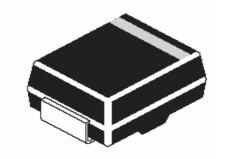
DO-214AC (SMA) SMD Plastic Package



DIM	Min	Max		
Α	4.06	4.57		
В	2.18	2.79		
С	1.29	1.70		
D	0.152	0.305		

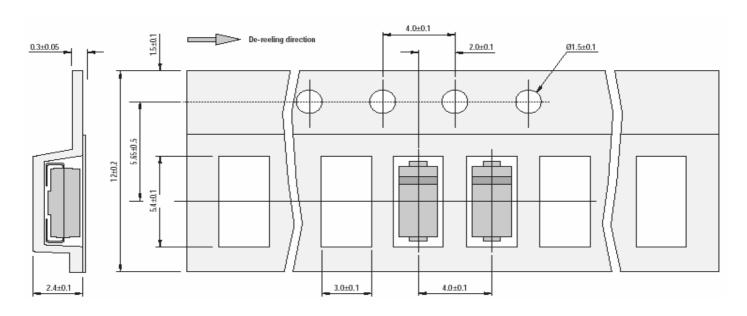
DIM	Min	Max
Е	1.70	2.31
F	0.89	1.50
G	0.102	0.203
Н	4.70	5.31

All Dimensions are in mm



DO214-AC Surface Mount Package

SMA Packaging Tape



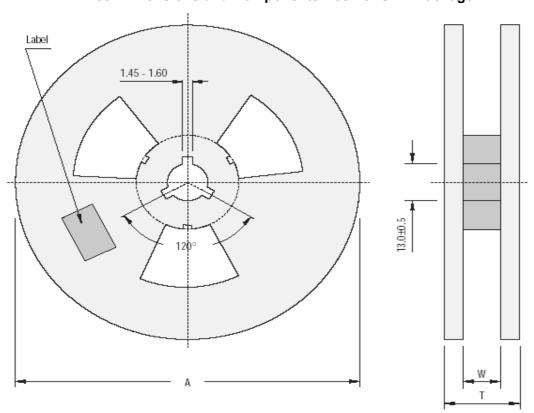
All Dimensions are in mm

Packaging Information

Package/	Packaging Type	Std. Packing	Inner Carton				Outer Carton		
Case Type		Qty	Qty	Size L x W x H	Gross Weight	Qty	Size L x W x H	Gross Weight	
				(cm)	(Kg)		(cm)	(Kg)	
DO-214AC (SMA)	T&R	5,000				50K	46 x 38 x 22	7.9	

T & R: Tape and Reel

Reel Dimensions and Components/Reel for SMD Package



Reel Specifications							
	Tape	Reel Dia.	Inside	Reel			
Package	Width		Thickness	Thickness			
		A - Max	W	T - max			
DO-214AC (SMA)	12	330	12.4 ± 2	18.4			

All Dimensions are in mm

Components Disposal Instructions

- 1. CDIL Semiconductor Devices are non-recyclable RoHS free material, customers are requested to please dispose as per prevailing Environmental Legislation of their Country.
- 2. In Europe, please dispose as per EU Directive 2002/96/EC on Waste Electrical and Electronic Equipment (WEEE).

Disclaimer

The product information and the selection guides facilitate selection of the CDIL's Discrete Semiconductor Device(s) best suited for application in your product(s) as per your requirement. It is recommended that you completely review our Data Sheet(s) so as to confirm that the Device(s) meet functionality parameters for your application. The information furnished in the Data Sheet and on the CDIL Web Site/CD are believed to be accurate and reliable. CDIL however, does not assume responsibility for inaccuracies or incomplete information. Furthermore, CDIL does not assume liability whatsoever, arising out of the application or use of any CDIL product; neither does it convey any license under its patent rights nor rights of others. These products are not designed for use in life saving/support appliances or systems. CDIL customers selling these products (either as individual Discrete Semiconductor Devices or incorporated in their end products), in any life saving/support appliances or systems or applications do so at their own risk and CDIL will not be responsible for any damages resulting from such sale(s).

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