

Chipsmall Limited consists of a professional team with an average of over 10 year of expertise in the distribution of electronic components. Based in Hongkong, we have already established firm and mutual-benefit business relationships with customers from, Europe, America and south Asia, supplying obsolete and hard-to-find components to meet their specific needs.

With the principle of "Quality Parts, Customers Priority, Honest Operation, and Considerate Service", our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip, ALPS, ROHM, Xilinx, Pulse, ON, Everlight and Freescale. Main products comprise IC, Modules, Potentiometer, IC Socket, Relay, Connector. Our parts cover such applications as commercial, industrial, and automotives areas.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!



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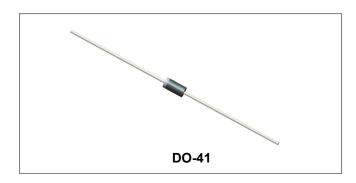








R2000F FAST RECOVERY RECTIFIER



Features

- · Fast switching
- Low Forward Voltage Drop
- High Current Capability
- High Reliability
- High Surge Current Capability
- This is a Pb Free Device
- All SMC parts are traceable to the wafer lot
- Additional testing can be offered upon request

Circuit Diagram



Mechanical Data

- Case: DO-41 molded plastic body
- Lead: MIL-STD-202E method 208C guaranteed
- Epoxy:Device has flammability classification 94-0
- Polarity: Cathode Band
- Weight: 0.35 grams(Approx)

Maximum Ratings and Electrical Characteristics @TA=25°C unless otherwise specified

Characteristic	Symbol	R2000F	Units
Peak Repetitive Reverse Voltage Working Peak Reverse Voltage DC Blocking Voltage	V _{RRM} V _{RWM} V _R	2000	V
RMS Reverse Voltage	V _{R(RMS)}	1400	V
Average Rectified Output Current @T _A = 50°C	I _(AV)	0.2	А
Non-Repetitive Peak Forward Surge Current 8.3ms Single half sine-wave superimposed on rated load (JEDEC Method)	IFSM	30	А
Forward Voltage @I _F =0.2A	V _{FM}	4.0	V
Peak Reverse Current @T _A = 25°C At Rated DC Blocking Voltage @T _A = 55°C	I _{RM}	5.0 100	μΑ
Reverse recovery time (Note1)	t _{rr}	500	ns
Operating and Storage Temperature Range	T _{STG}	-55 to +150	°C

Note: 1.Reverse recovery condition IF=0.5A, IR=1.0A, Irr=0.25A.

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Ratings and Characteristics Curves

FIG. 1 - TYPICAL FORWARD CURRENT DERATING CURVE AVERAGE FORWARD CURRENT, (MA) 500 Single Phase Half Wave 60Hz Inductive or 400 Resistive Load 300 200 100 0 0 50 100 150 175 AMBIENT TEMPERATURE, (°C)

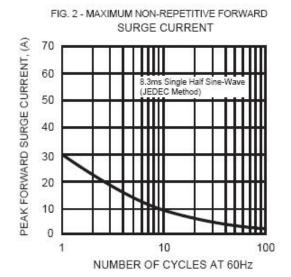
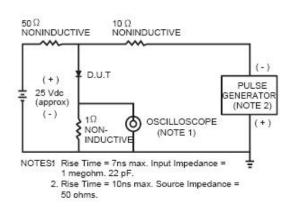
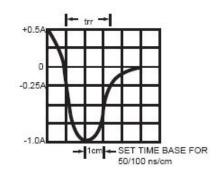


FIG. 3 - TEST CIRCUIT DIAGRAM AND REVERSE RECOVERY TIME CHARACTERISTIC





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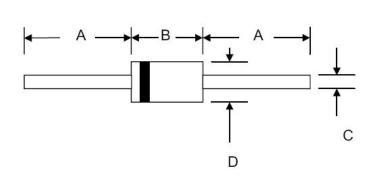
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Mechanical Dimensions DO-41



SYMBOL	Millim	neters	Inches	
STIVIBOL	Min.	Max.	Min.	Max.
А	25.4	-	1.000	-
В	4.06	5.21	0.160	0.205
С	0.71	0.864	0.028	0.034
D	2.00	2.72	0.079	0.107

Ordering Information

Device	Package	Shipping	
R2000F	DO-41	5000pcs / tape	
	(Pb-Free)	Jooopes / tape	

For information on tape and reel specifications, including part orientation and tape sizes, please refer to our tape and reel packaging specification.

Marking Diagram

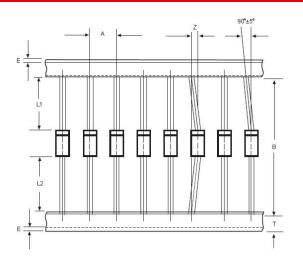


Where XXXXX is YYWWL

R2000F = Part Name
SSG = SSG
YY = Year
WW = Week
L = Lot Number

Cautions: Molding resin Epoxy resin UL:94V-0

Carrier Tape Specification DO-41



SYMBOL	Millimeters		
	Min.	Max.	
А	4.50	5.50	
В	50.9	53.9	
Z	-	1.20	
Т	5.60	6.40	
E	-	0.80	
IL1-L2I	-	1.0	

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