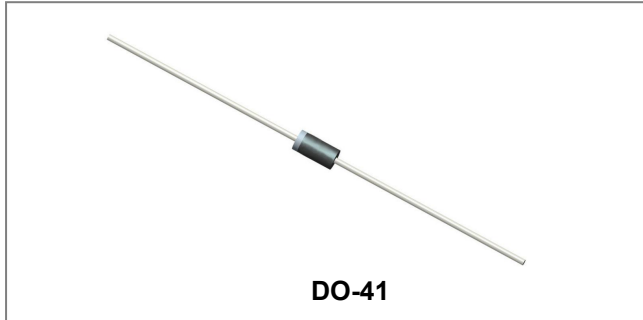


R2000F FAST RECOVERY RECTIFIER



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 @T_A=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	A
Non-Repetitive Peak Forward Surge Current 8.3ms Single half sine-wave superimposed on rated load (JEDEC Method)	I _{FSM}	30	A
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	μA
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.

Ratings and Characteristics Curves

FIG. 1 - TYPICAL FORWARD CURRENT DERATING CURVE

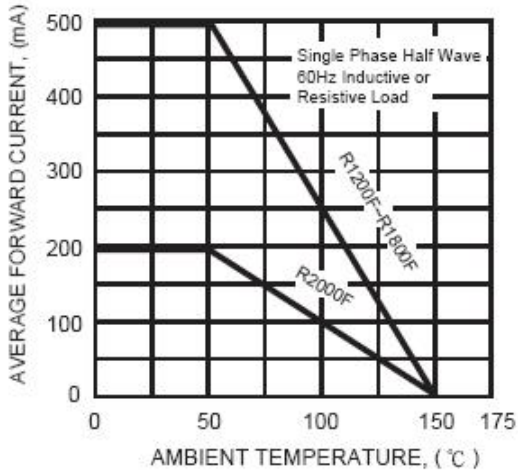


FIG. 2 - MAXIMUM NON-REPETITIVE FORWARD SURGE CURRENT

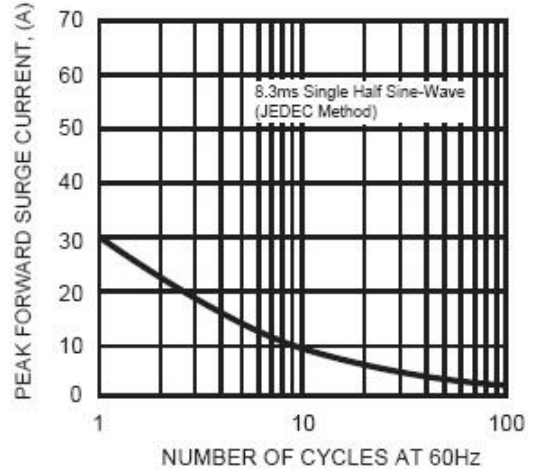
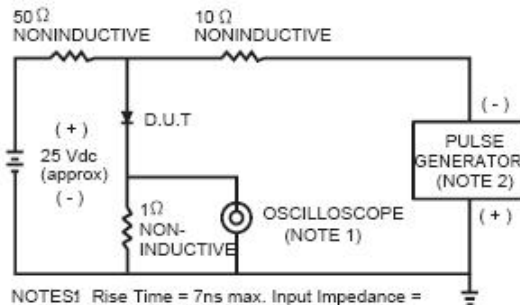
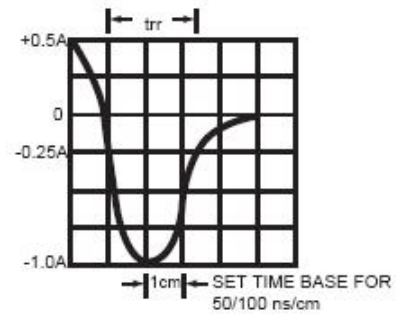


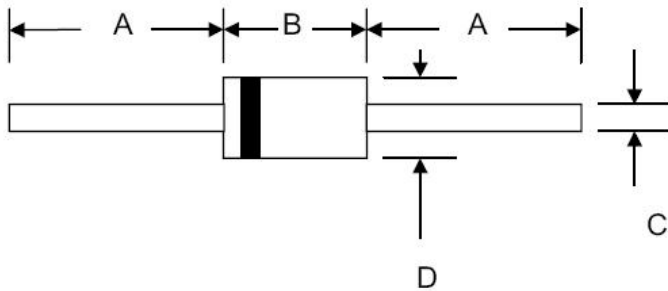
FIG. 3 - TEST CIRCUIT DIAGRAM AND REVERSE RECOVERY TIME CHARACTERISTIC



NOTES: 1. Rise Time = 7ns max. Input Impedance = 1 megohm. 22 pF.
2. Rise Time = 10ns max. Source Impedance = 50 ohms.



Mechanical Dimensions DO-41



SYMBOL	Millimeters		Inches	
	Min.	Max.	Min.	Max.
A	25.4	-	1.000	-
B	4.06	5.21	0.160	0.205
C	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 (Pb-Free)	5000pcs / 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

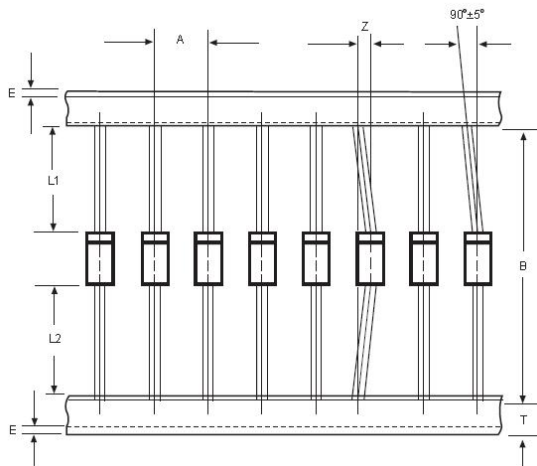


Where XXXXX is YYWWL

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.
A	4.50	5.50
B	50.9	53.9
Z	-	1.20
T	5.60	6.40
E	-	0.80
IL1-L2I	-	1.0

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