# DC COMPONENTS CO., LTD.

### **RECTIFIER SPECIALISTS**

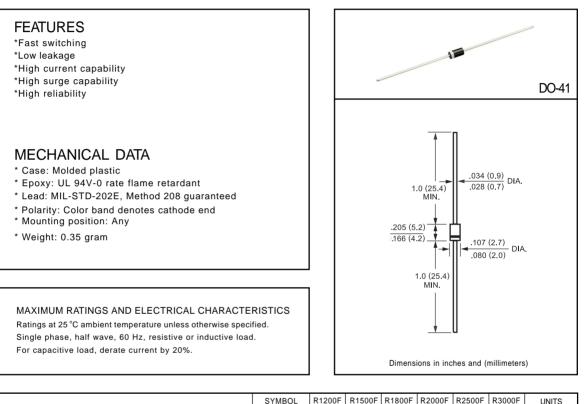
R1200F THRU R3000F

### TECHNICAL SPECIFICATIONS OF HIGH VOLTAGE FAST RECOVERY RECTIFIER

VOLTAGE RANGE - 1200 to 3000 Volts

R

CURRENT - 0.2 to 0.5 Ampere



	SYMBOL	R1200F	R1500F	R1800F	R2000F	R2500F	R3000F	UNITS
Maximum Recurrent Peak Reverse Voltage	Vrrm	1200	1500	1800	2000	2500	3000	Volts
Maximum RMS Volts	Vrms	840	1050	1260	1400	1750	2100	Volts
Maximum DC Blocking Voltage	VDC	1200	1500	1800	2000	2500	3000	Volts
Maximum Average Forward Rectified Current at TA = 50°C	lo		500 200					mAmps
Peak Forward Surge Current, 8.3 ms single half sine-wave superimposed on rated load (JEDEC Method)	IFSM	30					Amps	
Maximum Instantaneous Forward Voltage at 0.5A/0.2A DC	VF	2.5 4.0 5.0		5.0	Volts			
Maximum DC Reverse Current at Rated DC Blocking Voltage TA = 25°C	5.0							uAmps
Maximum Full Load Reverse Current Average, Full Cycle .375* (9.5mm) lead length at T L = $55^{\circ}$ C		100						uAmps
Maximum Reverse Recovery Time (Note)	trr	500					nSec	
Operating and Storage Temperature Range	TJ, TSTG	-65 to + 175					٥C	

NOTES : Test Conditions: IF = 0.5A, IR = 1.0A, IRR = 0.25A

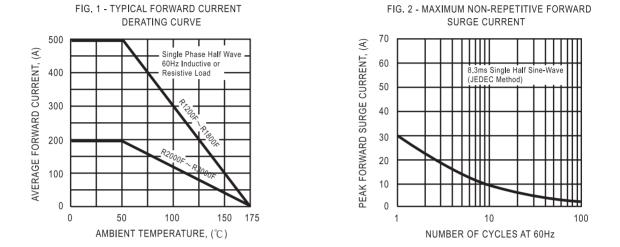
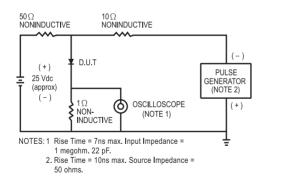
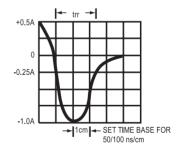


FIG. 3 - TEST CIRCUIT DIAGRAM AND REVERSE RECOVERY TIME CHARACTERISTIC







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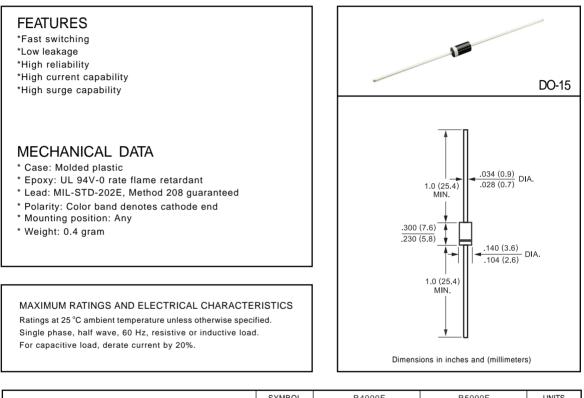
R4000F THRU R5000F

### TECHNICAL SPECIFICATIONS OF HIGH VOLTAGE FAST RECOVERY RECTIFIER

VOLTAGE RANGE0 - 4000 to 5000 Volts

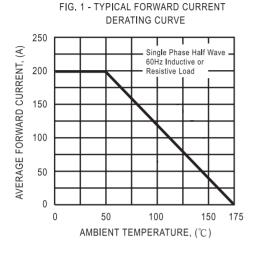
R

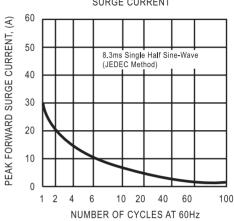
CURRENT - 0.2 Ampere



	SYMBOL	R4000F	R5000F	UNITS
Maximum Recurrent Peak Reverse Voltage	Vrrm	4000	5000	Volts
Maximum RMS Volts	Vrms	2800	3500	Volts
Maximum DC Blocking Voltage	VDC	4000	5000	Volts
Maximum Average Forward Rectified Current at TA = 50°C	lo	2	mAmps	
Peak Forward Surge Current, 8.3 ms single half sine-wave superimposed on rated load (JEDEC Method)	IFSM	3	Amps	
Maximum Instantaneous Forward Voltage at 0.2A DC	VF	6	Volts	
Maximum DC Reverse Current at Rated DC Blocking Voltage TA = 25°C	lR	5	uAmps	
Maximum Full Load Reverse Current Average, Full Cycle .375*(9.5mm) lead length at T L = 55°C		1	uAmps	
Maximum Reverse Recovery Time (Note)	trr	5	nSec	
Operating and Storage Temperature Range	TJ, TSTG	-65 to	°C	

NOTES : Test Conditions: IF = 0.5A, IR = 1.0A, IRR = 0.25A





#### FIG. 2 - MAXIMUM NON-REPETITIVE FORWARD SURGE CURRENT

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

