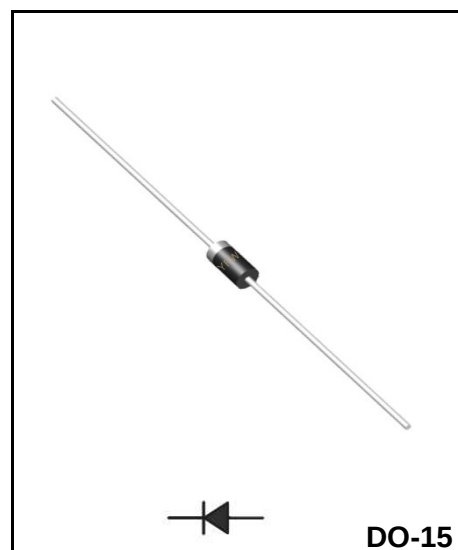


Fast Recovery High Voltage Rectifier

Reverse Voltage - 3500V to 6000V

Forward Current – 0.2A



FEATURES

- AVALANCHE OPERATION
- UL 94V0 FLAME RETARDANT EPOXY MOLDING COMPOND
- BEVELED ROUND CHIP
- LOW COST

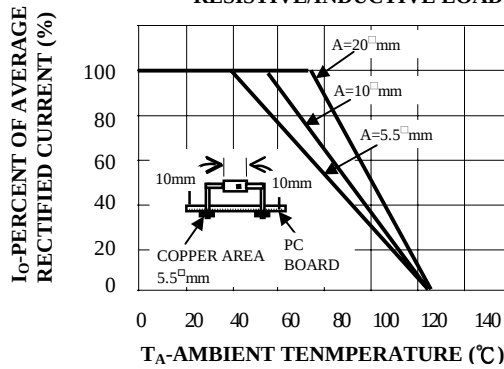
Maximum ratings

Ratings at $T_A=25^{\circ}\text{C}$ (unless otherwise specified)

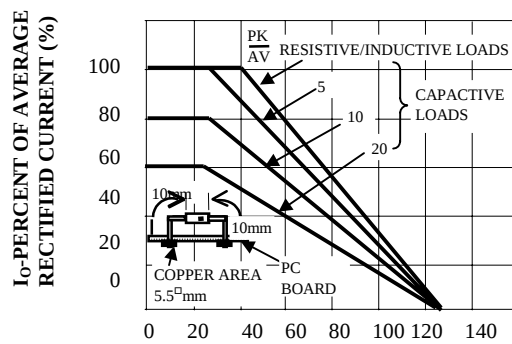
Parameter		Symbols	R3500F	R4000F	R5000F	R6000F	Units
Maximum Repetitive Peak Reverse Voltage		V_{RRM}	3500	4000	5000	6000	V
Maximum RMS voltage		V_{RMS}	2450	2800	3500	4200	V
Maximum DC Blocking Voltage		V_{DC}	3500	4000	5000	6000	V
Average Forward Current $T_A = 55^{\circ}\text{C}$		$I_{F(AV)}$	0.2				A
Peak Forward Surge Current 8.3ms, half sine	R3500F-4000F	I_{FSM}	25				A
	R5000F-6000F		20				A
Maximum Instantaneous Forward Voltage at 0.2 A; $T_A = 25^{\circ}\text{C}$	R3500F-4000F	V_F	8.0				V
	R5000F-6000F		12.0				V
Maximum DC Reverse Current $T_a = 25^{\circ}\text{C}$ at Rated DC Blocking Voltage		I_R	5.0				μA
Typical Junction Capacitance Measured at 1.0MHz, $V_R=4.0\text{V}$	R3500F-4000F	C_j	6				pF
	R5000F-6000F		4				pF
Maximum Reverse Recovery Time $I_F=0.5\text{A}, I_R=1.0\text{A}, I_{RR}=0.25\text{A}$		T_{rr}	500				nS
Operating and Storage Temperature Range		T_j, T_{stg}	-55 ~ +125 -55 ~ +150				$^{\circ}\text{C}$

RATINGS AND CHARACTERISTICS CURVES

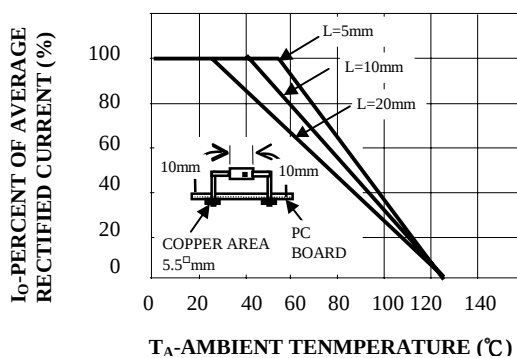
**FIG. 1-MAXIMUM CURRENT RATING
EFFECT OF COPPER AREA.
RESISTIVE/INDUCTIVE LOAD**



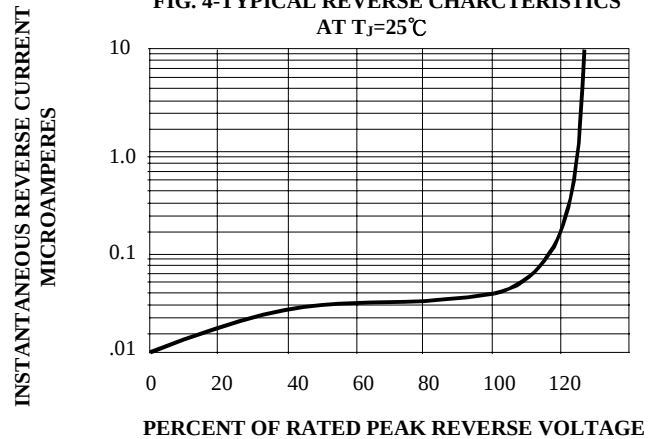
**FIG. 2-MAXIMUM CURRENT RATING
CAPACITIVE LOAD,
10mm LEAD LENGTHS**



**FIG. 3-MAXIMUM CURRENT RATING
EFFECT OF COPPER AREA.
RESISTIVE/INDUCTIVE LOAD**



**FIG. 4-TYPICAL REVERSE CHARACTERISTICS
AT T_J=25°C**



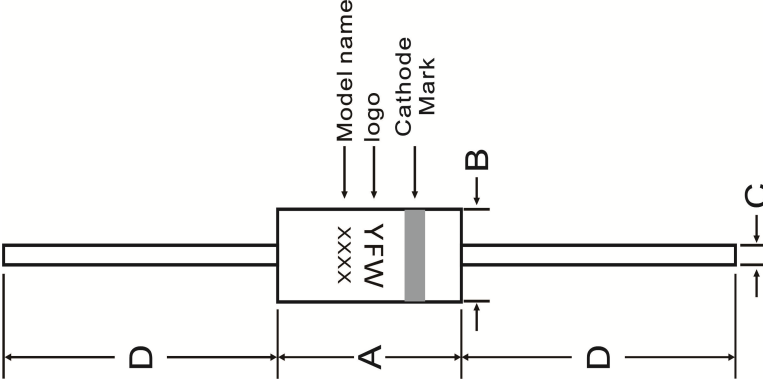
Ordering information

Package	Packing Description	Packing Quantity
DO-15	bulk	500PCS/Box 30000PCS/Carton
	braid	3000PCS/Box 30000PCS/Carton

Package Dimensions

DO-15

Dim.	Millimeter(mm)		INCHES	
	Min.	Max.	Min.	Max.
A	5.80	7.60	0.230	0.300
B	2.60	3.60	0.104	0.140
C	0.71	0.86	0.028	0.034
D	25.4	-	1.00	-



The diagram illustrates the physical dimensions of a DO-15 package. It shows a central rectangular body with two leads extending from it. Dimension A is the width of the body, B is the height, C is the thickness of the leads, and D is the length of the leads. The diagram also shows the model name 'xxxx MFA' and the cathode mark on the body.

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