

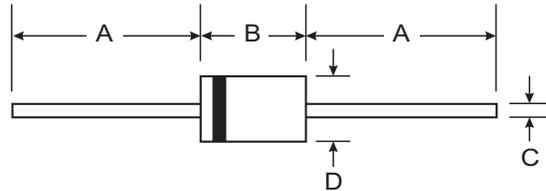


R1500 - R3000

HIGH VOLTAGE RECTIFIER

Features

- High Voltage to 3000V with Low Leakage
- 1.5kV to 3kV V_{RRM}
- Surge Ratings of 25A - 30A
- Plastic Material - UL Flammability Classification Rating 94V-0



Mechanical Data

- Case: Molded Plastic
- Terminals: Plated Leads Solderable per MIL-STD-202, Method 208
- Polarity: Cathode Band
- Weight: 0.35 grams (approx.)
- Mounting Position: Any
- Marking: Type Number

DO-41 Plastic		
Dim	Min	Max
A	25.40	—
B	4.06	5.21
C	0.71	0.884
D	2.00	2.72
All Dimensions in mm		

Maximum Ratings and Electrical Characteristics @ $T_A = 25^\circ\text{C}$ unless otherwise specified

Single phase, half wave, 60Hz, resistive or inductive load.
For capacitive load, derate current by 20%.

Characteristic	Symbol	R1500	R2000	R3000	Unit
Peak Repetitive Reverse Voltage Working Peak Reverse Voltage DC Blocking Voltage	V_{RRM} V_{RWM} V_R	1500	2000	3000	V
RMS Reverse Voltage	$V_{R(RMS)}$	1050	1400	2100	V
Average Rectified Output Current (Note 1) @ $T_L = 55^\circ\text{C}$	I_o	500		200	mA
Non-Repetitive Peak Forward Surge Current 8.3ms single half sine-wave superimposed on rated load (JEDEC Method)	I_{FSM}	30		25	A
Forward Voltage @ $I_F = 500\text{mA}$ @ $I_F = 200\text{mA}$	V_{FM}	2.0 —	—	3.0	V
Peak Reverse Leakage Current at Rated DC Blocking Voltage	I_{RM}	5.0			μA
Typical Junction Capacitance (Note 2)	C_j	8.0		7.0	pF
Typical Thermal Resistance Junction to Ambient	$R_{\theta JA}$	70		117	K/W
Operating and Storage Temperature Range	T_j, T_{STG}	-65 to +125			$^\circ\text{C}$

- Notes: 1. Valid provided that leads are kept at ambient temperature at a distance of 9.5mm from the case.
2. Measured at 1.0MHz and applied reverse voltage of 4.0V DC.

