

## R1200~R5000 0.5/0.2Amp High Voltage Rectifier

### Features

- The plastic package carries Underwriters Laboratory Flammability Classification 94V-0
- Construction utilizes void-free molded plastic technique
- Low reverse leakage
- High forward surge current capability
- High temperature soldering guaranteed:  
250°C/10 seconds, 0.375"(9.5mm) lead length,  
5 lbs. (2.3kg) tension

### Mechanical Data

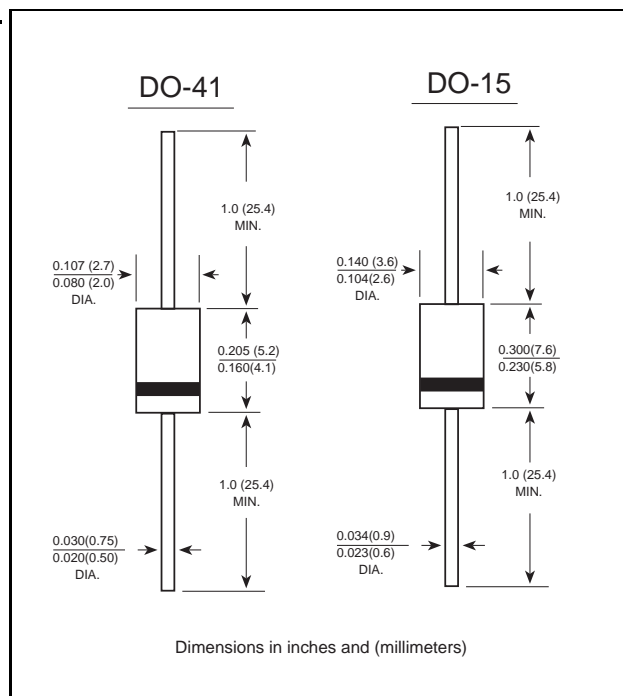
Case: JEDEC DO-41 /DO-15 molded plastic body

Terminals : Plated axial leads, solderable per MIL-STD-750, Method 2026

Polarity: Color band denotes cathode end

Mounting Position: Any

Weight :0.012 ounce, 0.33 grams(DO-41)  
0.014 ounce, 0.40 grams(DO-15)



### Maximum Ratings And Electrical Characteristics

Ratings at 25°C ambient temperature unless otherwise specified. Single phase half-wave 60Hz, resistive or inductive load, for capacitive load current derate by 20%.

	SYMBOLS	R1200	R1500	R1800	R2000	R2500	R3000	R3500	R4000	R5000	UNITS
Maximum repetitive peak reverse voltage	$V_{RRM}$	1200	1500	1800	2000	2500	3000	3500	4000	5000	VOLTS
Maximum RMS voltage	$V_{RMS}$	840	1050	1260	1400	1750	2100	2450	2800	3500	VOLTS
Maximum DC blocking voltage	$V_{DC}$	1200	1500	1800	2000	2500	3000	3500	4000	5000	VOLTS
Maximum average forward rectified current 0.375" (9.5mm) lead length at $T_A = 55^\circ\text{C}$	$I_{(AV)}$	0.5			0.2					Amps	
Peak forward surge current 8.3ms single half sine-wave superimposed on rated load (JEDEC Method)	$I_{FSM}$	30.0									Amps
Maximum instantaneous forward voltage at 1.0A	$V_F$	2.0		3.0		4.0		5.0		Volts	
Maximum DC reverse current $T_A = 25^\circ\text{C}$ at rated DC blocking voltage $T_A = 100^\circ\text{C}$	$I_R$	5.0									$\mu\text{A}$
Typical junction capacitance (NOTE 1)	$C_J$	15.0									pF
Typical thermal resistance (NOTE 2)	$R_{\theta JA}$	50.0									$^\circ\text{C/W}$
Operating junction and storage temperature range	$T_J, T_{STG}$	-65 to +175									$^\circ\text{C}$

Note: 1. Measured at 1MHz and applied reverse voltage of 4.0V D.C.

2. Thermal resistance from junction to ambient at 0.375" (9.5mm) lead length, P.C.B. mounted