

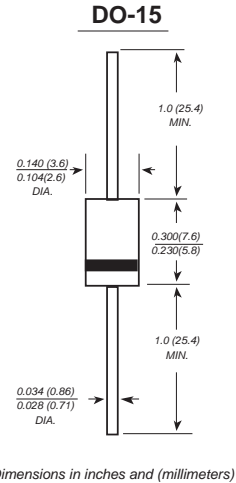
## HIGH VOLTAGE RECTIFIER

### 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:** 0.014 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	R2500	R3000	R4000	R5000	UNITS
Maximum repetitive peak reverse voltage	$V_{RRM}$	2500	3000	4000	5000	VOLTS
Maximum RMS voltage	$V_{RMS}$	1750	2100	2800	3500	VOLTS
Maximum DC blocking voltage	$V_{DC}$	2500	3000	4000	5000	VOLTS
Maximum average forward rectified current 0.375" (9.5mm) lead length (see fig.1)	$I_{(AV)}$	0.2				Amp
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 0.2 A	$V_F$	3.0	4.0	5.0		Volts
Maximum DC reverse current at rated DC blocking voltage $T_A=25^\circ\text{C}$ $T_A=100^\circ\text{C}$	$I_R$	5.0 50				$\mu\text{A}$
Typical junction capacitance (NOTE 1)	$C_J$	15.0				pF
Typical thermal resistance (NOTE 2)	$R_{qJA}$	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

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