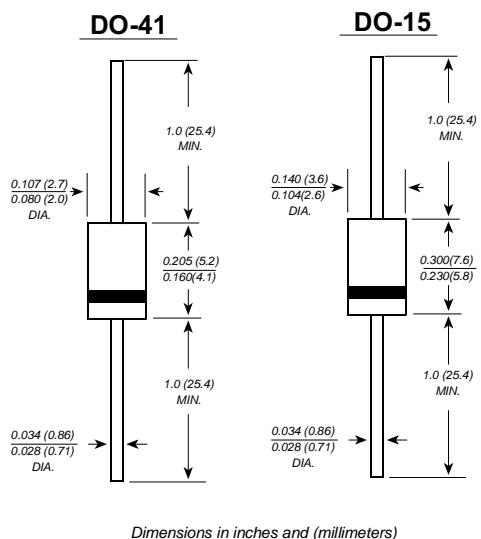


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R1200F THRU R2000F HIGH VOLTAGE FAST RECOVERY RECTIFIER

Reverse Voltage - 1200 to 2000 Volts Forward Current - 0.5/0.2 Ampere



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	R1200F	R1500F	R1800F	R2000F	UNITS
Maximum repetitive peak reverse voltage	V _{RRM}	1200	1500	1800	2000	VOLTS
Maximum RMS voltage	V _{RMS}	840	1050	1260	1400	VOLTS
Maximum DC blocking voltage	V _{DC}	1200	1500	1800	2000	VOLTS
Maximum average forward rectified current 0.375" (9.5mm) lead length (see fig.1)	I _(AV)		0.5		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 0.5/0.2 A	V _F		2.5	4.0		Volts
Maximum DC reverse current T _A =25°C at rated DC blocking voltage T _A =100°C	I _R		5.0	50.0		µA
Maximum reverse recovery time (NOTE 1)	t _{rr}		500			ns
Typical junction capacitance (NOTE 2)	C _J		15.0			pF
Typical thermal resistance (NOTE 3)	R _{θJA}		50.0			°C/W
Operating junction and storage temperature range	T _J , T _{STG}		-65 to +150			°C

Note: 1. Reverse recovery condition I_F=0.5A, I_R=1.0A, I_{rr}=0.25A

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

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

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RATINGS AND CHARACTERISTIC CURVES R1200F THRU R2000F

