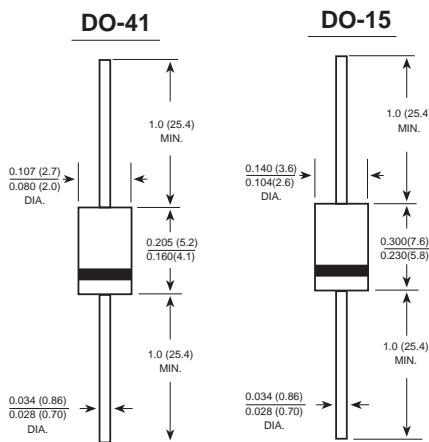


R1200 THRU R2000

HIGH VOLTAGE RECTIFIER

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



Dimensions in inches and (millimeters)

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	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		2.0	3.0		Volts
Maximum DC reverse current TA=25°C at rated DC blocking voltage TA=100°C	I _R		5.0	50		µA
Typical junction capacitance (NOTE 1)	C _J		15.0			pF
Typical thermal resistance (NOTE 2)	R _{θJA}		50.0			°C/W
Operating junction and storage temperature range	T _{J,T_{STG}}		-65 to +175			°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

RATINGS AND CHARACTERISTIC CURVES R1200 THRU R2000

AVERAGE FORWARD RECTIFIED CURRENT,
AMPERES

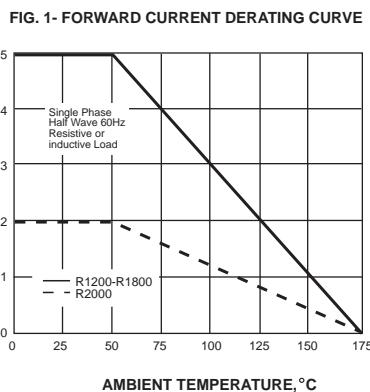
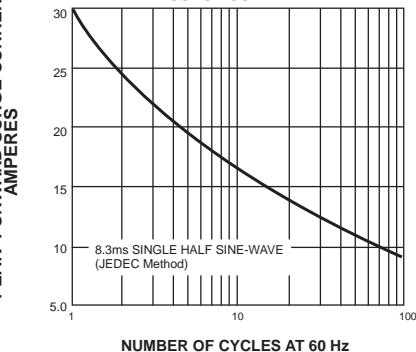


FIG. 2-MAXIMUM NON-REPETITIVE PEAK FORWARD SURGE CURRENT



INSTANTANEOUS FORWARD CURRENT, AMPERES

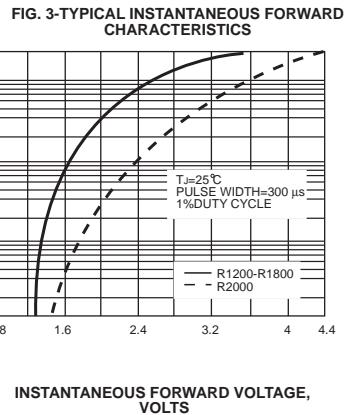
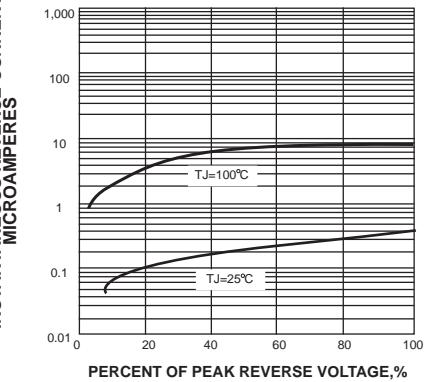
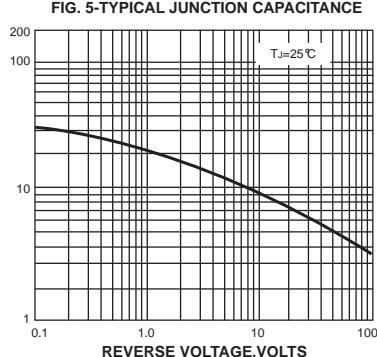


FIG. 4-TYPICAL REVERSE CHARACTERISTICS



JUNCTION CAPACITANCE, pF



TRANSIENT THERMAL IMPEDANCE, °C/W

