



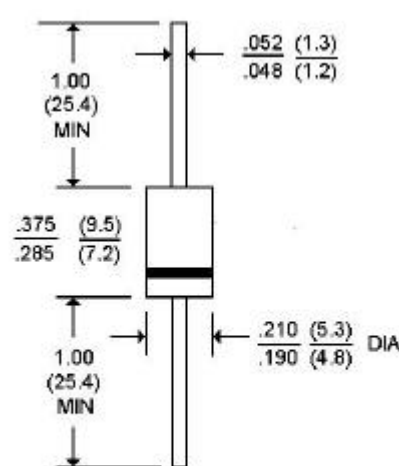
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SOFT RECOVERY PLASTIC RECTIFIER
VOLTAGE - 100 to 800 Volts CURRENT - 2.0 Amperes

FEATURES

- High surge current capability
- The plastic package carries Underwriters Laboratory Flammability Classification 94V-O
- Void-free plastic package
- 2.0 Ampere operation at $T_A=55\text{ }^{\circ}\text{C}$ with no thermal runaway
- Fast switching for high efficiency
- Exceeds environmental standards of MIL-S-19500/228

DO-201AD

Dimensions in inches and (millimeters)

MECHANICAL DATA

Case: Molded plastic, DO-201AD

Terminals: Axial leads, solderable per
MIL-STD-202, Method 208

Polarity: Band denotes end

Mounting Position: Any

Weight: .04 ounce, 1.1gram

MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Ratings at $25\text{ }^{\circ}\text{C}$ ambient temperature unless otherwise specified.

Single phase, half wave, 60 Hz, resistive or inductive load.

For capacitive load, derate current by 20%.

	SYMBOLS	BY296	BY297	BY298	BY299	UNITS
Maximum Recurrent Peak Reverse Voltage	V_{RRM}	100	200	400	800	Volts
Maximum RMS Voltage	V_{RMS}	70	140	280	560	Volts
Maximum DC Blocking Voltage	V_{DC}	100	200	400	800	Volts
Maximum Average Forward Rectified Current .375"(9.5mm) lead lengths at $T_A=55\text{ }^{\circ}\text{C}$	$I_{(AV)}$	2.0				Amps
Peak Forward Surge Current 10ms single half sine-wave superimposed on rated load	I_{FSM}	70.0				Amps
Maximum Repetitive Peak Forward Surge (Note 1)	I_{FRM}	10.0				Amps
Maximum Instantaneous Forward Voltage at 3.0A	V_F	1.3				Volts
Maximum DC Reverse Current $T_A=25\text{ }^{\circ}\text{C}$ At Rated DC Blocking Voltage $T_A=100\text{ }^{\circ}\text{C}$	I_R	10.0 500				$\mu\text{g A}$
Maximum Reverse Recovery Time (Note 3) $T_J=25\text{ }^{\circ}\text{C}$	T_{RR}	150				ns
Typical Junction Capacitance (Note 2) $T_J=25\text{ }^{\circ}\text{C}$	C_J	28.0				pf
Typical Thermal Resistance (Note 4)	$R_{\theta KJA}$	15.0				$^{\circ}\text{C/W}$
Operating Temperature Range	T_J	-50 to +125				$^{\circ}\text{C}$
Storage Temperature Range	T_{STG}	-50 to -150				$^{\circ}\text{C}$

NOTES:

1. Repetitive Peak Forward Surge Current at $f<15\text{ HKz}$.
2. Measured at 1 MHz. And applied reverse voltage of 4.0 volts.
3. Reverse Recovery Test Conditions; $I_F=0.5\text{ A}$, $I_R=1.0\text{ A}$, $I_{rr}=0.25\text{ A}$.
4. Thermal Resistance from Junction to Ambient at .375"(9.5mm) lead lengths with both leads to heat sink.

RATING AND CHARACTERISTIC CURVES

BY296 THRU BY299

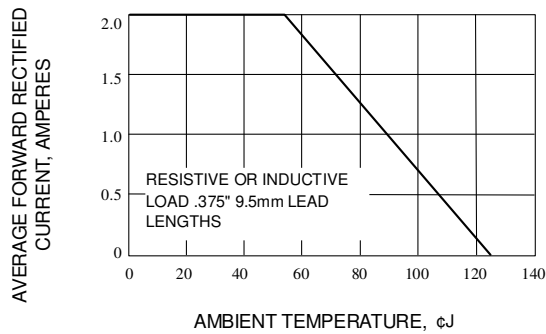


Fig. 1-FORWARD CURRENT DERATING CURVE

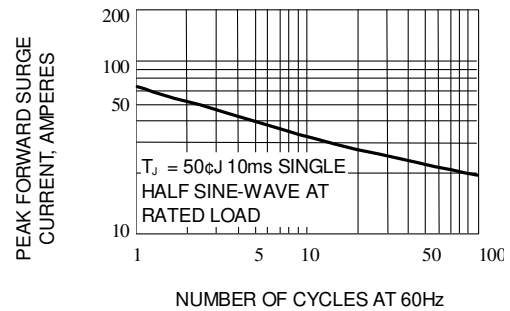


Fig. 2-MAXIMUM NON-REPETITIVE PEAK FORWARD SURGE CURRENT

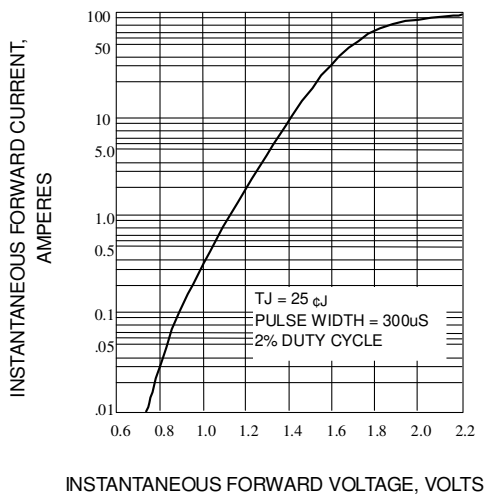


Fig. 3-TYPICAL INSTANTANEOUS FORWARD CHARACTERISTICS

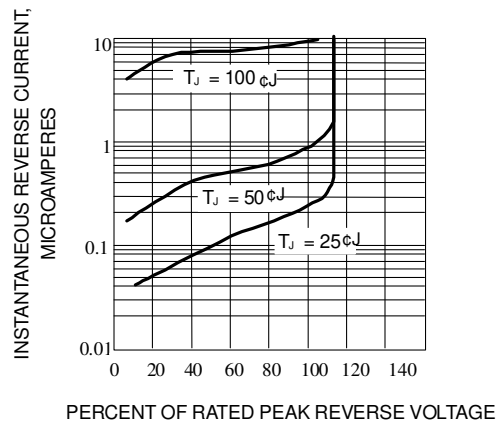


Fig. 4-TYPICAL REVERSE CHARACTERISTICS

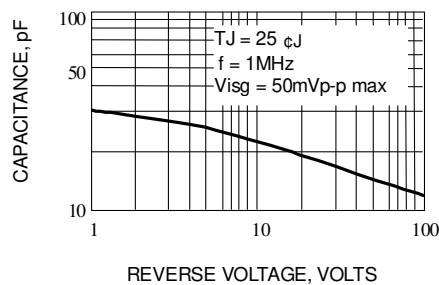


Fig. 5-TYPICAL JUNCTION CAPACITANCE