

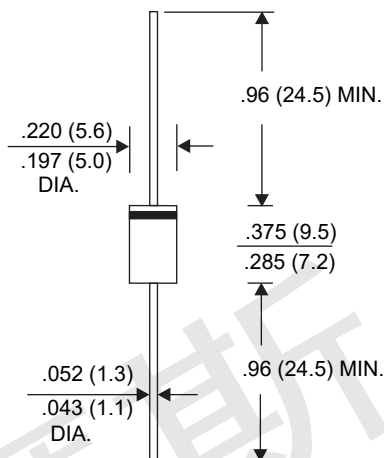
FEATURES

- Glass Passivated chip junction
- Superfast recovery times-epitaxial construction.
- Low forward voltage, high current capability.
- Exceeds environmental standards of MIL-S-19500/228.
- Hermetically sealed.
- Low leakage.
- High surge capability.
- Plastic package has Underwriters Laboratories Flammability Classification 94V-O utilizing Flame Retardant Epoxy Molding Compound.
- In compliance with EU RoHS 2002/95/EC directives

MECHANICAL DATA

- Case: Molded plastic, DO-201AD
- Terminals: Axial leads, solderable to MIL-STD-750, Method 2026
- Polarity: Color Band denotes cathode end
- Mounting Position: Any
- Weight: 0.0395 ounce, 1.122 gram

DO-201AD



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, derate current by 20%.

Type Number or marks	Symbols	ER1002G	ER1004G	ER1006G	ER1008G	Units
Maximum Recurrent Peak Reverse Voltage	VRRM	200	400	600	800	Volts
Maximum RMS Voltage	VRMS	140	280	420	560	Volts
Maximum DC Blocking Voltage	VDC	200	400	600	800	Volts
Maximum Average Forward Rectified Current. Lead Length @Ta(Fig 1)	IAV	10.0				Amp
Peak Forward Surge Current, 8.3ms single half-sine-wave superimposed on rated load (JEDEC method)	IFSM	200				Amp
Maximum Forward Voltage @IAV	VF	1.0	1.3	1.7	2.1	Volts
Maximum DC reverse current at TJ=25°C rated DC blocking voltage per TJ=100°C	IR	10.0 500				uAmp
Typical Thermal Resistance TJ=25°C	RθJC	2.0				°C/W
Maximum Reverse Recovery Time (Note 1)	TRR	35				nS
Typical Junction Capacitance (Note 2)	CJ	150				pF
Operating Temperature Range TJ	TJ	-55 to +150				°C
Storage Temperature Range TSTG	TSTG	-55 to +150				°C

Note:

1. Measured with $I_F = 0.5A$, $I_R = 1A$, $IRR = 0.25A$.
2. Measured at 1.0 MHz and applied reverse voltage of 4.0 V DC.
3. The typical data above is for reference only.

* This product The above data sheet typical data meet the Mentioned standards, designers for reference only

Ordering Information (Example)

Prefered P/N	Package code	Unit weight(g)	Minimum Package(pcs)	Inner box Quantity(pcs)	Outer carton quantity(pcs)	Delivery mode
DO-27	T1	about 1.05	1250	1250	12500	Tape
DO-201AD	B1	about 1.05	250	250	12500	Bulk
DO-201AE	B2	about 1.05	250	250	10000	Bulk

RATINGS AND CHARACTERISTIC CURVES

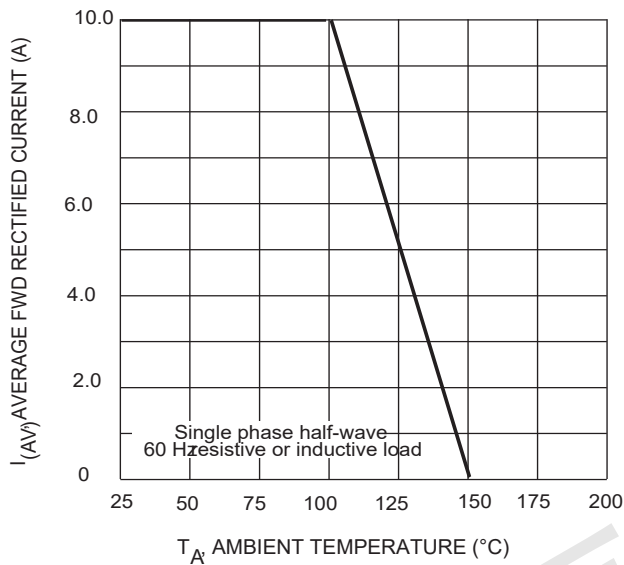


Fig. 1 Forward Derating Curve

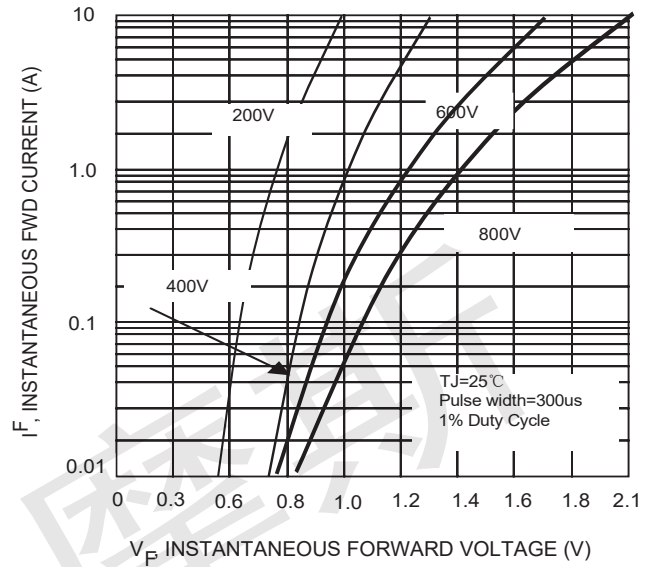


Fig. 2 Typical Forward Characteristics

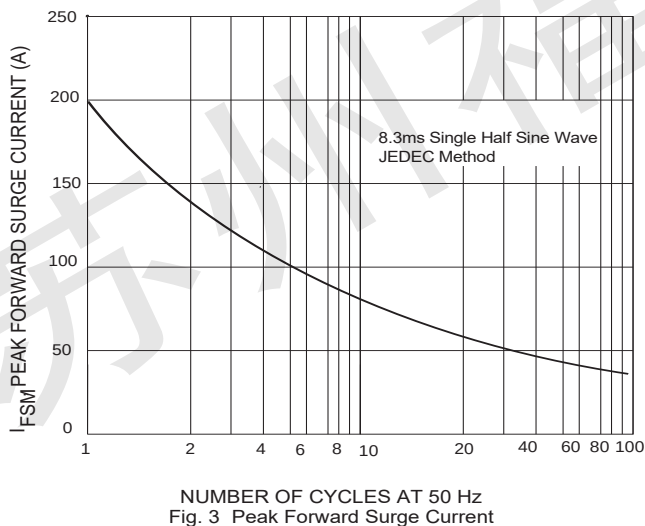


Fig. 3 Peak Forward Surge Current

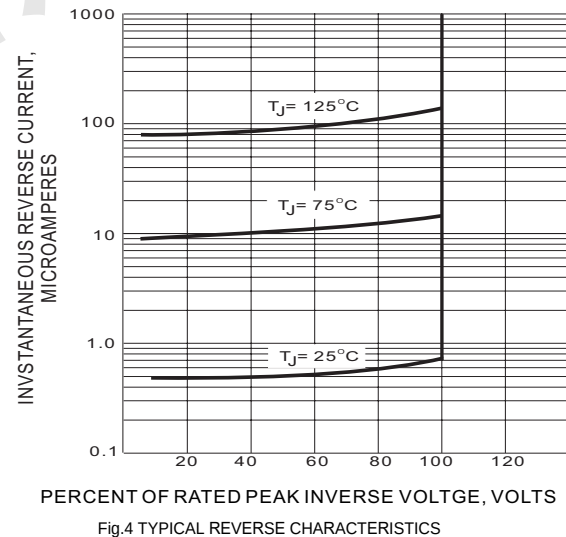
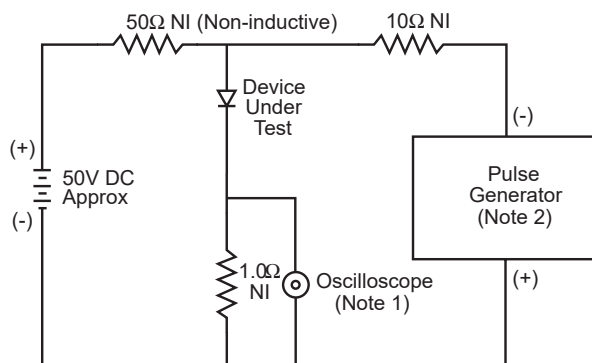


Fig. 4 TYPICAL REVERSE CHARACTERISTICS



Notes:

1. Rise Time=7ns max .Input Impedance=1MΩ 22pf
2. Rise Time=10ns max.Source Impedance=50Ω

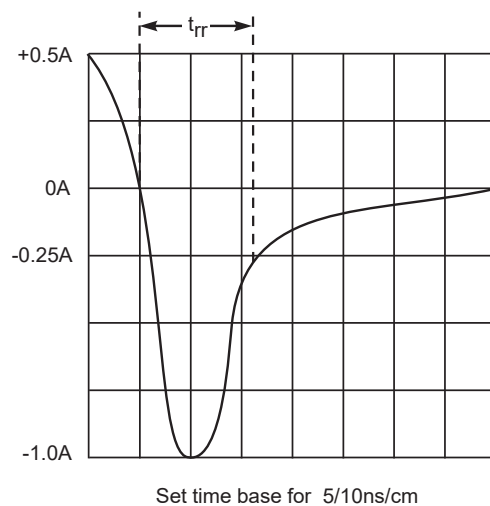


Fig. 5 Reverse Recovery Time Characteristic and Test Circuit