

4.0AMP HIGH EFFICIENCY RECTIFIERS

Reverse Voltage - 2000V Forward Current - 4.0A

FEATURES

- ➤Low cost
- ➤ Diffused junction
- ➤Low Leakage
- ➤ Low forward voltage drop
- ➤ High current capability
- Easily cleaned with Freon. Alcohol. Lsopropanol and solvents
- >The plastic material carries U/L recognition 94V-O



➤ Case: JEDEC DO - 27. molded plastic ➤ Terminals: Axial leads. Solderable per

>MIL - STD - 20 Method 208

➤ Polarity: Color band denotes cathodeP

➤ Weight: 0.04 ounce. 1.10 grams

> Mounting position: Any



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%

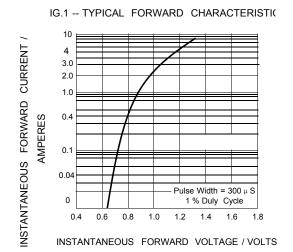
Parameter	SYMBOL	FR420	UNITS
Maximum Recurrent Peak Reverse Voltage	V _{RRM}	2000	V
Maximum RMS Voltage	V _{RMS}	1400	V
Maximum DC Blocking Voltage	V _{DC}	2000	V
Maximum Average Forward RectifiedCurrent 9.5mm Lead Length. TA = 75℃	I _(AV)	4.0	А
Peak Forward Surge Current 8.3ms Single half-sine-wave superimposed on rated Tj = 125°C	I _{FSM}	150	А
Maximum Forward Voltage at 4.0A DC	V _F	1.45	V
Maximum Reverse CurrentTA = 25℃		5.0	
at Rated DC Blocking Voltage TA=100°C	l _R	100.0	— μA
Maximum reverse recovery time (Note1)	trr	60	ns
Typical Junction Capacitance (Note 2)	Cj	30	pF
Typical Thermal Resistance (Note 3)	R₀JA	20	°C/W
Operating Junction Temperature Range	T _j	−55 to 150	$^{\circ}$
Storage Temperature Range	T _{STG}	−55 to 150	$^{\circ}$

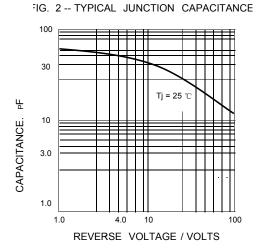
NOTE: 1. Reverse recovery codition IF=0.5A IR=1.0 Irr=0.25A

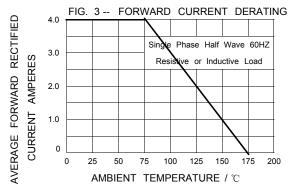
2.Measured at 1.0MHZ and applied reverse voltage of 4.0V DC.

3. Thermal resistance junction to ambient.









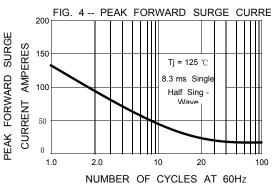
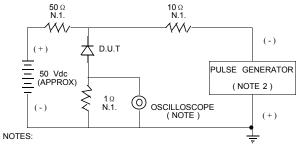
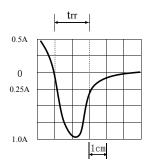


FIG. 5 -- TEST CIRCUIT DIAGRAM AND REVERSE RECOVERY TIME CHARACTERISTIC



- 1. RISE TIME = 7n SEC MAX. INPUT IMPEDANCE = 1 MEGOHM.
- 2. RISE TIME = 10n SEC MAX. SOURCE IMPEDANCE = 50 OHM



SET TIME BASE FOR 25/35 ns/cm

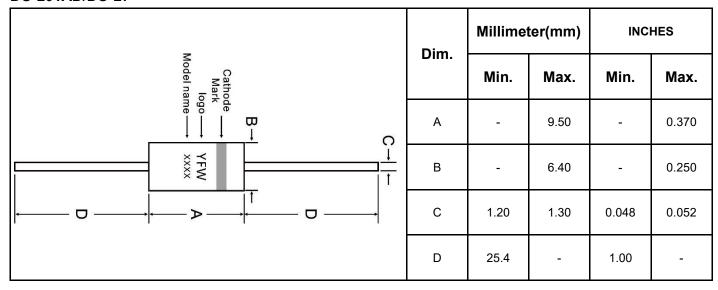


Ordering information

Package	Packing Description	Packing Quantity	
DO-201AD/DO-27	bulk	250PCS/500PCS/Inner Box 12500PCS/Carton	
	ammo pack	1000PCS/1250PCS/Inner Box 10000PCS/12500PCS/Carton	

Package Dimensions

DO-201AD/DO-27





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