

### HIGH VOLTAGE RECTIFIER DIODES PRV : 2000 Volts Io : 3.0 Amperes

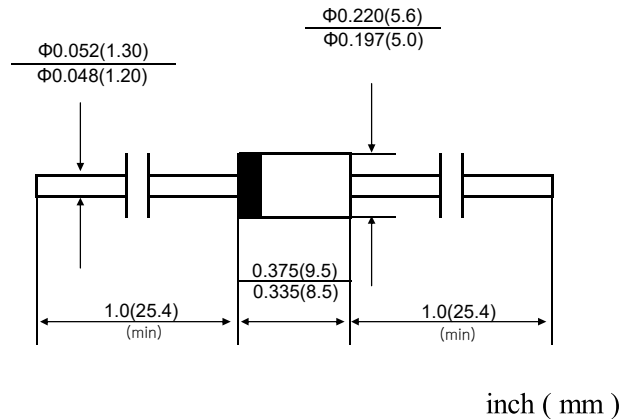
DO-201AD

#### FEATURES :

- \* High current capability
- \* High surge current capability
- \* High reliability
- \* Low reverse current
- \* Low forward voltage drop
- \* Pb / RoHS Free

#### MECHANICAL DATA :

- \* Case : DO-201AD Molded plastic
- \* Epoxy : UL94V-O rate flame retardant
- \* Lead : Axial lead solderable per MIL-STD-202,  
Method 208 guaranteed
- \* Polarity : Color band denotes cathode end
- \* Mounting position : Any
- \* Weight : 1.16 grams



Dimensions in inches and ( millimeters )

#### MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Rating at 25 °C ambient temperature unless otherwise specified.  
Single phase, half wave, 60 Hz, resistive or inductive load.  
For capacitive load, derate current by 20%.

RATING	SYMBOL	HVR320	UNIT
Maximum Repetitive Peak Reverse Voltage	VRRM	2000	V
Maximum RMS Voltage	VRMS	1400	V
Maximum DC Blocking Voltage	VDC	2000	V
Maximum Average Forward Current Ta = 50°C	IF(AV)	3.0	A
Maximum Peak Forward Surge Current 8.3ms Single half sine wave Superimposed on rated load (JEDEC Method)	IFSM	100	A
Maximum Peak Forward Voltage at IF = 3.0 A	VF	2.2	V
Maximum DC Reverse Current	IR	10	μA
Typical Junction Capacitance (Note 1)	Cj	36	pF
Typical Thermal Resistance (Note 2)	RθJA	26	°C/W
Junction Temperature Range	TJ	- 40 to + 150	°C
Storage Temperature Range	TSTG	- 40 to + 150	°C

#### Notes :

- (1) Measured at 1.0 MHz and applied reverse voltage of 4.0Vdc
- (2) Thermal resistance from Junction to Ambient at 0.375" (9.5mm) Lead Lengths, P.C. Board Mounted.

RATING AND CHARACTERISTIC CURVES

FIG.1 - DERATING CURVE FOR OUTPUT RECTIFIED CURRENT

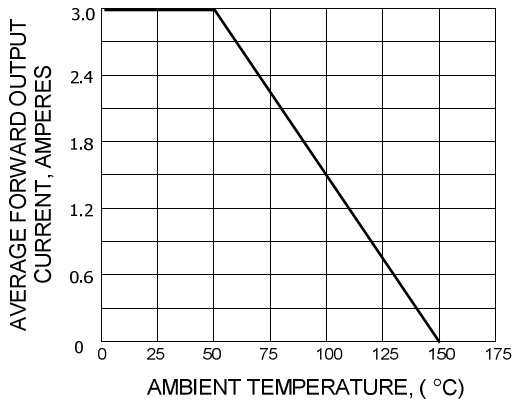


FIG.2 - MAXIMUM NON-REPETITIVE PEAK FORWARD SURGE CURRENT

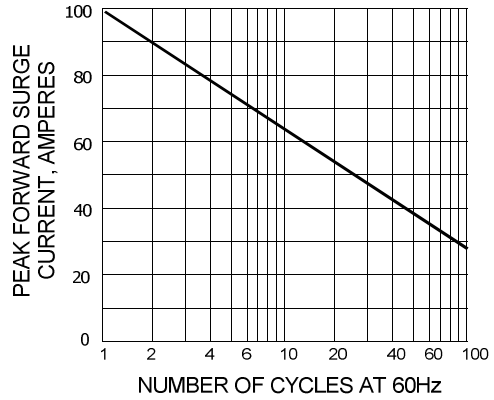


FIG.3 - TYPICAL FORWARD CHARACTERISTICS

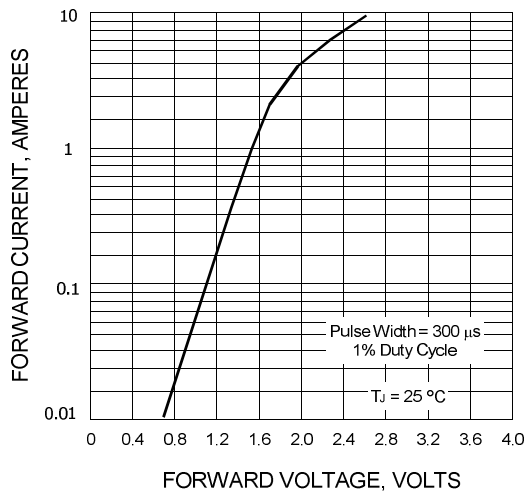


FIG.4 - TYPICAL REVERSE CHARACTERISTICS

