

BYX134PL

HIGH VOLTAGE AVALANCHE DIODE

PRV : 4000 Volts

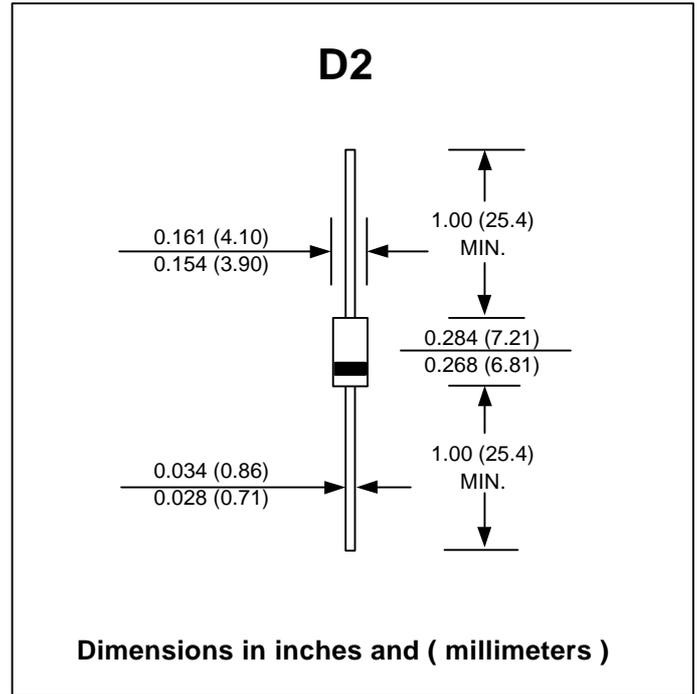
Io : 50mA

FEATURES :

- * High maximum operating temperature
- * Excellent stability
- * High reliability
- * Low reverse current
- * **Pb / RoHS Free**

MECHANICAL DATA :

- * Case : D2 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 : 0.465 gram



MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Rating at 25 °C ambient temperature unless otherwise specified.
Single phase, half wave, 50 Hz, resistive or inductive load.
For capacitive load, derate current by 20%.

RATING		SYMBOL	VALUE	UNIT
Maximum Repetitive Peak Reverse Voltage		V _{RRM}	4000	V
Maximum Working Reverse Voltage		V _{RWM}	4000	V
Min. Avalanche Breakdown Voltage at 100 μA, T _j = 25°C		V _{BR(min.)}	5500	V
Max. Avalanche Breakdown Voltage at 100 μA, T _j = 25°C		V _{BR(max.)}	7500	V
Maximum Average Forward Current		I _{F(AV)}	50	mA
Maximum Repetitive Peak Forward Current		I _{FRM}	500	mA
Maximum Non-Repetitive Peak Reverse Current (t = 100 μs triangular pulse; T _{j(max)} prior to surge)		I _{RSM}	50	mA
Forward Voltage at	I _F = 10 mA, T _j = 25°C	V _{F(Min)}	5.0	V
		V _{F(Max.)}	7.0	V
Maximum Reverse Current	V _R = V _{RWMmax.} ; T _j = 25°C	I _R	1.0	μA
	V _R = V _{RWMmax.} ; T _j = 175°C	I _{R(H)}	30	μA
Thermal Resistance From Junction to Ambient (Ta=TL; Lead Length=10mm)		R _{th j-a}	90	K/W
Maximum Junction Temperature		T _j	175	°C
Storage Temperature Range		T _{STG}	- 55 to + 175	°C