

BYX134PL

HIGH VOLTAGE AVALANCHE DIODE

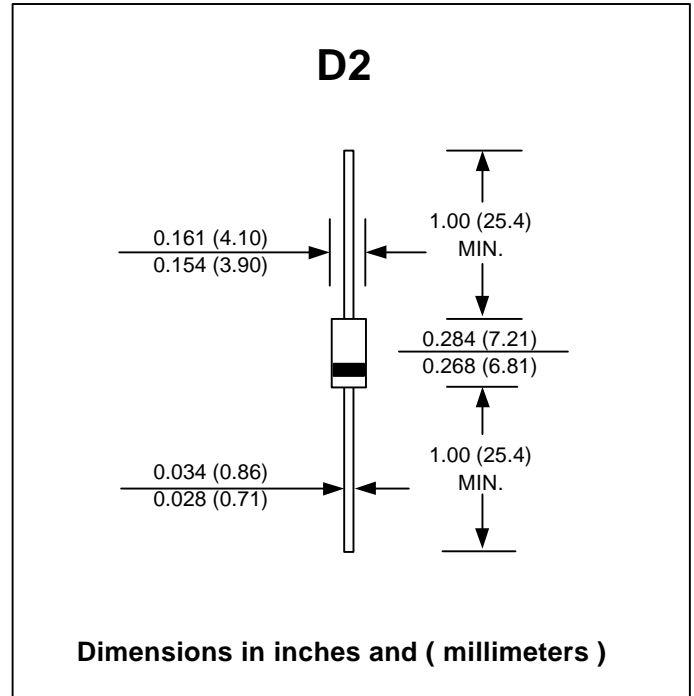
PRV : 4000 Volts
Io : 50mA

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 μ A, $T_j = 25^\circ\text{C}$		$V_{BR(min.)}$	5500	V
Max. Avalanche Breakdown Voltage at 100 μ A, $T_j = 25^\circ\text{C}$		$V_{BR(max.)}$	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 μ s triangular pulse; $T_{j(max)}$ prior to surge)		I_{RSM}	50	mA
Forward Voltage at	$I_F = 10 \text{ mA}, T_j = 25^\circ\text{C}$	$V_{F(Min)}$	5.0	V
		$V_{F(Max.)}$	7.0	V
Maximum Reverse Current	$V_R = V_{RWMmax.}; T_j = 25^\circ\text{C}$	I_R	1.0	μ A
	$V_R = V_{RWMmax.}; T_j = 175^\circ\text{C}$	$I_{R(H)}$	30	μ A
Thermal Resistance From Junction to Ambient ($T_a=T_L$; Lead Length=10mm)		$R_{th j-a}$	90	K/W
Maximum Junction Temperature		T_j	175	$^\circ\text{C}$
Storage Temperature Range		T_{STG}	- 55 to + 175	$^\circ\text{C}$