

# R2K

$V_{RM}$  : 150 Volts

$I_{ZSM}$  : 1.0 Amp. ( 100  $\mu$ s )

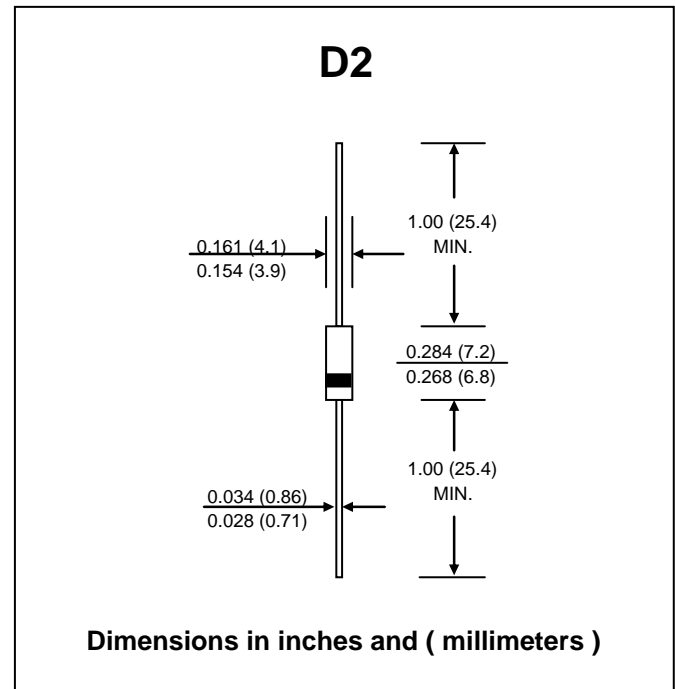
## FEATURES :

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

## MECHANICAL DATA :

- \* Case : D2 Molded plastic
- \* Epoxy : UL94V-0 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

# AVALANCHE DIODE



## MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

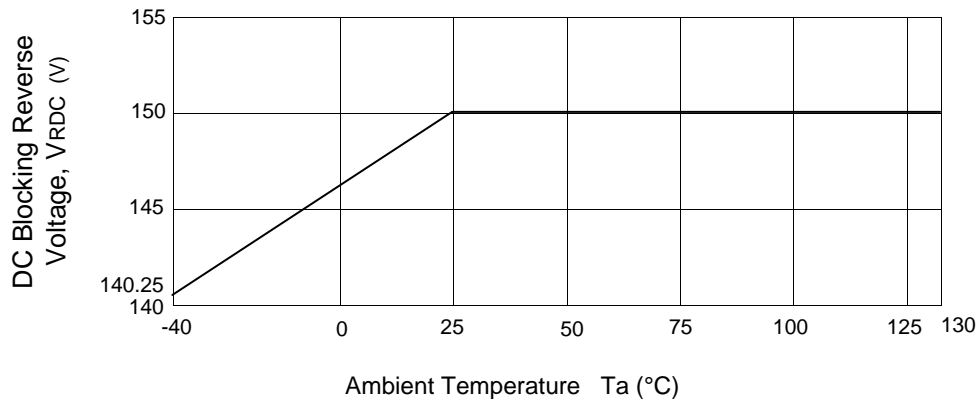
Rating at 25°C ambient temperature unless otherwise specified  
 Single phase, half wave, 60 Hz, resistive or inductive load  
 For capacitive load, derate current by 20%

RATING	SYMBOL	VALUE	UNIT
Maximum Peak Reverse Voltage	$V_{RM}$	150	V
Maximum DC Blocking Reverse Voltage	$V_{DC}$	150	V
Minimum Avalanche Breakdown Voltage at $I_Z = 1$ mA	$V_{BR(min)}$	170	V
Maximum Avalanche Breakdown Voltage at $I_Z = 1$ mA	$V_{BR(max)}$	200	V
Maximum Allowable Avalanche Current (Note 1)	$I_{ZSM}$	1.0	A
Maximum Reverse Current at $V_{RM}$ $T_a = 25$ °C	$I_R$	10	$\mu$ A
Maximum Reverse Current at $V_{RM}$ $T_a = 100$ °C	$I_{R(H)}$	50	$\mu$ A
Typical Avalanche Voltage Temperature Coefficient at $I_Z = 1$ mA		+0.15	V/°C
Junction Temperature Range	$T_J$	- 40 to + 130	°C
Storage Temperature Range	$T_{STG}$	- 40 to + 150	°C

**Note :** (1) Non-Repetitive Current Pulse width 100  $\mu$ s Square wave, one shot.

## RATING AND CHARACTERISTIC CURVES (R2K)

### $V_{R(DC)}$ - $T_a$ Characteristic



### $V_Z$ Temperature Coefficient

