

R2K

V_{RM} : 150 Volts

I_{ZSM} : 1.0 Amp. (100 μ s)

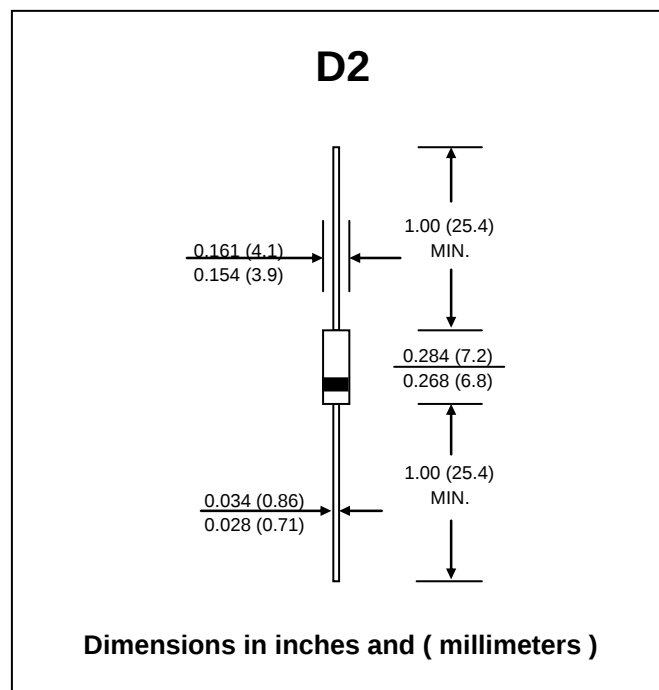
FEATURES :

- * 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-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

AVALANCHE DIODE



MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

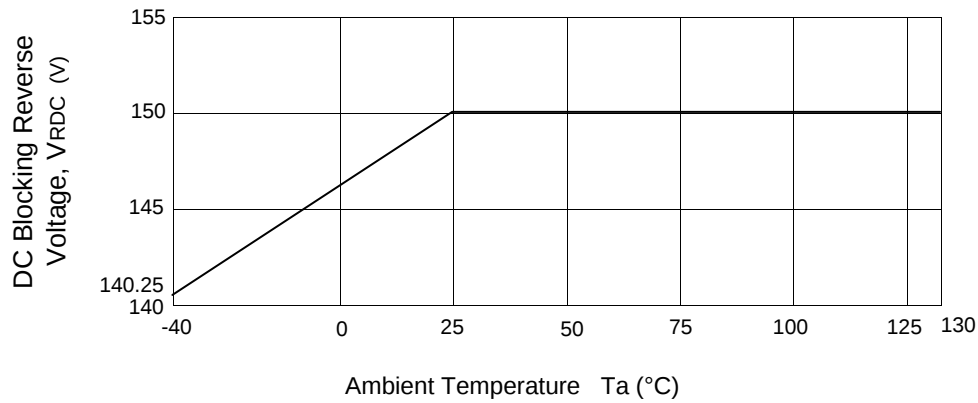
Rating at 25°C ambient temperature unless otherwise specified
 Single phase, half wave, 60 Hz, resistive or inductive load
 For capacitive load, derate current by 20%

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

Note : (1) Non-Repetitive Current Pulse width 100 μ s Square wave, one shot.

RATING AND CHARACTERISTIC CURVES (R2K)

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



V_z Temperature Coefficient

