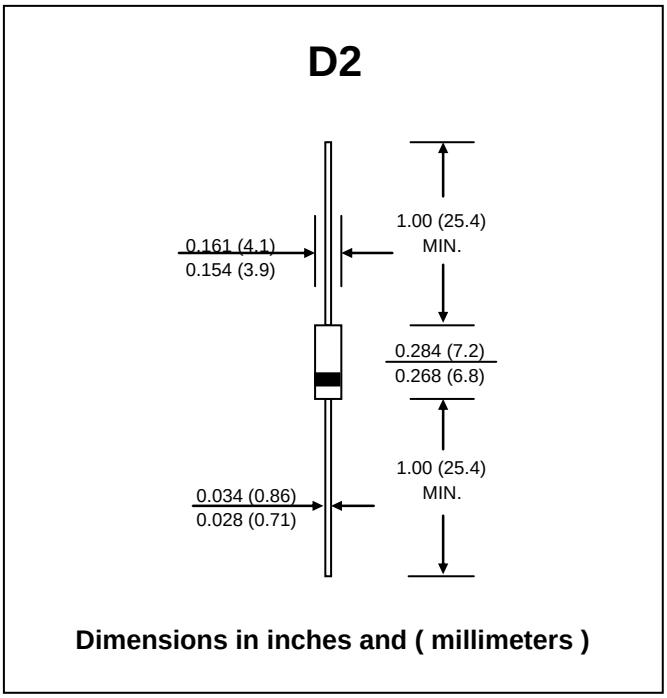
R2K

AVALANCHE DIODE

V_{RM} : 150 Volts
I_{ZSM} : 1.0 Amp. (100 µs)



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

MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

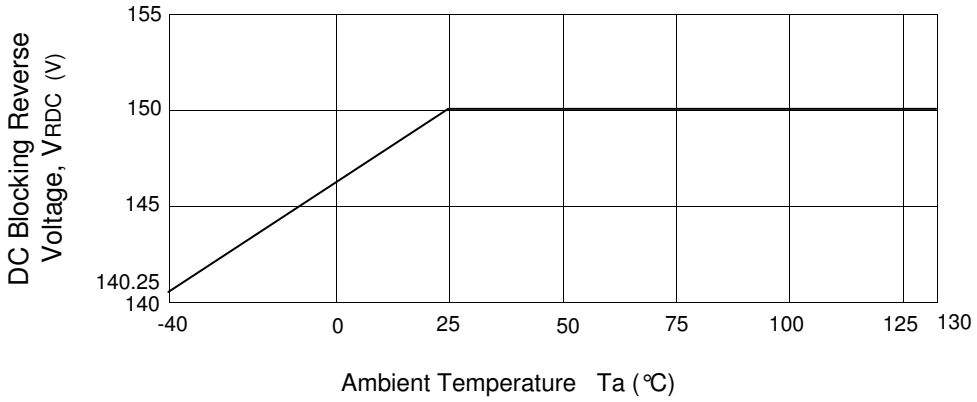
Rating at 25°C ambient temperature unless otherwise specified
Single phase, half wave, 60 Hz, resistive or inductive load
For capacitive load, derate current by 20%

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

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

RATING AND CHARACTERISTIC CURVES (R2K)

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



Vz Temperature Coefficient