Certificate Number: Q10561

Certificate Number: E17276

R2KN

AVALANCHE DIODE

V_{RM} : 140 Volts
I_{ZSM} : 1.0 Amp. (100 ms)

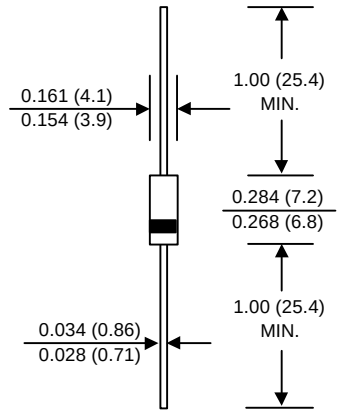
FEATURES :

* High current capability
* High surge current capability
* High reliability
* Low reverse current
* Low forward voltage drop

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

D2



Dimensions in inches and (millimeters)

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%.

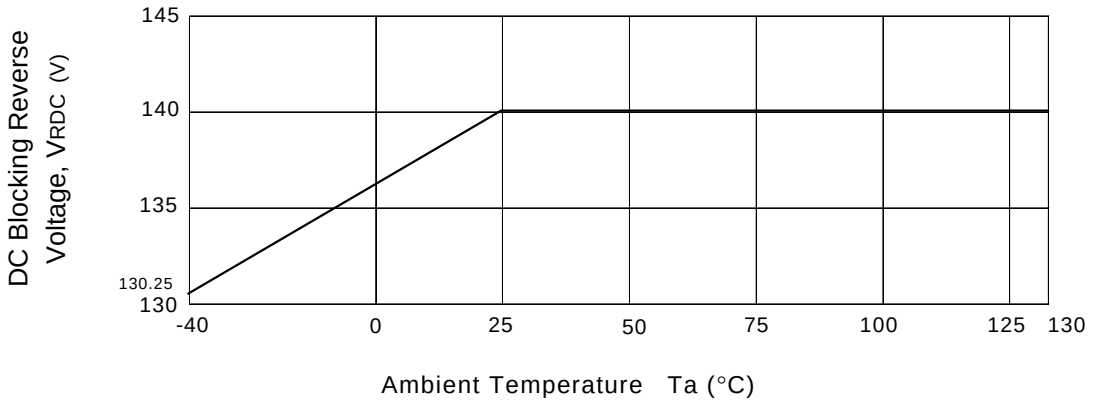
RATING	SYMBOL	VALUE	UNIT
Maximum Peak Reverse Voltage	V_{RM}	140	V
Maximum DC Blocking Reverse Voltage	V_{DC}	140	V
Minimum Avalanche Breakdown Voltage at I_Z = 1mA	$V_{BR(min)}$	150	V
Maximum Avalanche Breakdown Voltage at I_Z = 1mA	$V_{BR(max)}$	170	V
Maximum Allowable Avalanche Current (Note 1)	I_{ZSM}	1.0	A
Maximum Reverse Current at V_{RM} Ta = 25°C	I_R	10	µA
Maximum Reverse Current at V_{RM} Ta = 100°C	$I_{R(H)}$	50	µA
Typical Avalanche Voltage Temperature Coefficient at Iz = 1mA		+0.15	V/°C
Junction Temperature Range	T_J	- 40 to + 130	°C
Storage Temperature Range	T_{STG}	- 40 to + 130	°C

Notes :

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

RATING AND CHARACTERISTIC CURVES (R2KN)

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



Vz Temperature Coefficient