

# R2KN

**VRM : 140 Volts**  
**IzSM : 1.0 Amp. ( 100 ms )**

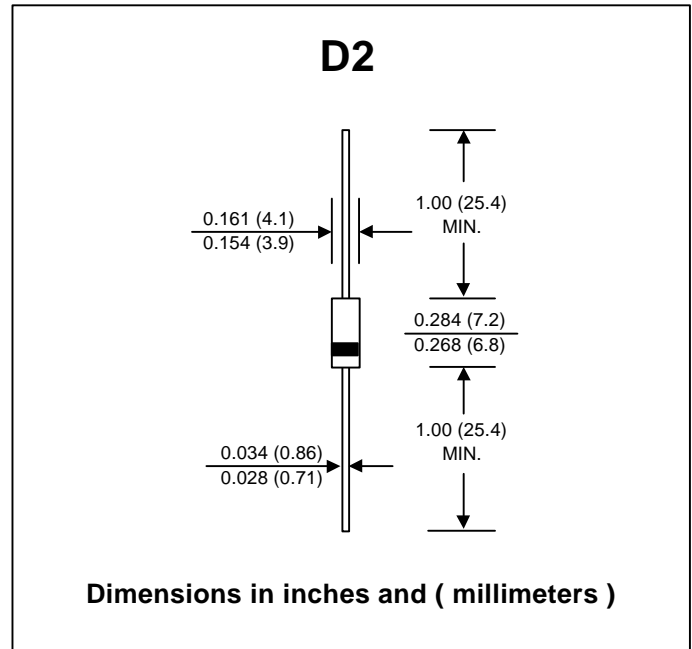
## FEATURES :

- \* 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

# 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%.

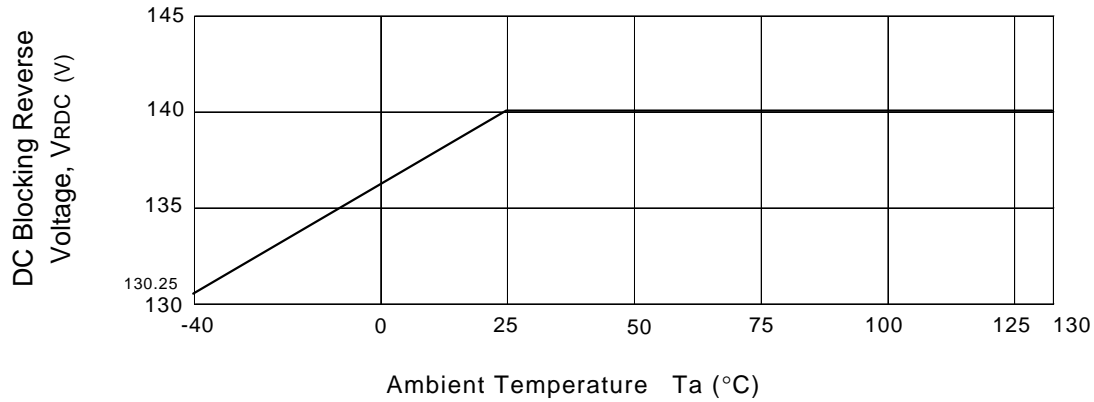
RATING	SYMBOL	VALUE	UNIT
Maximum Peak Reverse Voltage	VRM	140	V
Maximum DC Blocking Reverse Voltage	VDC	140	V
Minimum Avalanche Breakdown Voltage at Iz = 1mA	VBR(min)	150	V
Maximum Avalanche Breakdown Voltage at Iz = 1mA	VBR(max)	170	V
Maximum Allowable Avalanche Current (Note 1)	IzSM	1.0	A
Maximum Reverse Current at VRM      Ta = 25°C	IR	10	μA
Maximum Reverse Current at VRM      Ta = 100°C	IR(H)	50	μA
Typical Avalanche Voltage Temperature Coefficient at Iz = 1mA		+0.15	V/°C
Junction Temperature Range	TJ	- 40 to + 130	°C
Storage Temperature Range	TSTG	- 40 to + 130	°C

### Notes :

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

## RATING AND CHARACTERISTIC CURVES ( R2KN )

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



### $V_z$ Temperature Coefficient

