

**V<sub>RM</sub> : 145 Volts**  
**I<sub>ZSM</sub> : 1.0 Amp. ( 100 ms )**

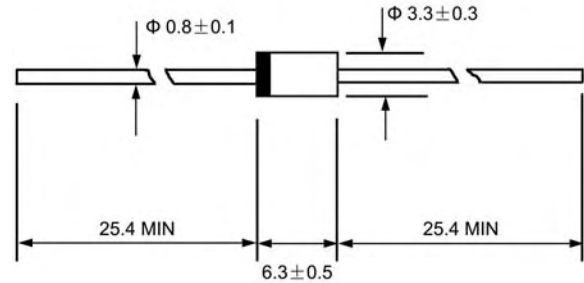
**DO - 15**

## Features

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

## Mechanical Data

- \* Case : DO-15 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 : 0.39 gram



Dimensions in millimeters

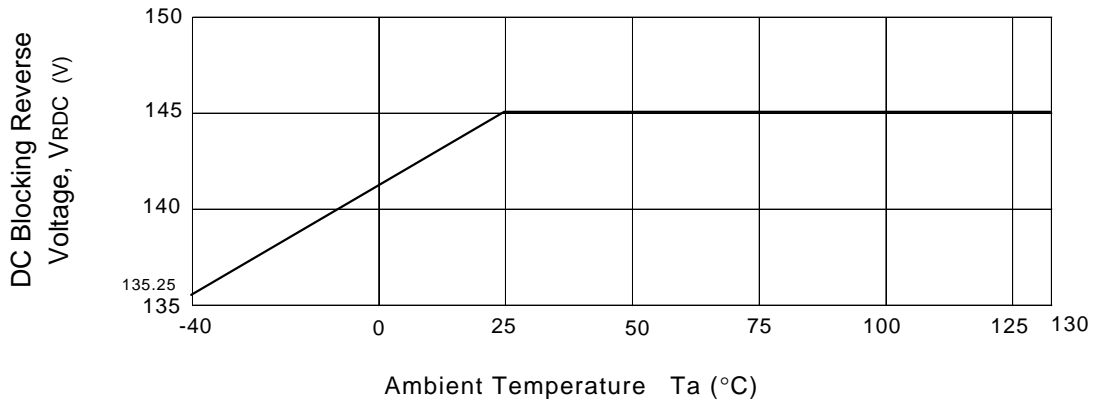
## MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

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 <sub>RM</sub>	145	V
Maximum DC Blocking Reverse Voltage	V <sub>DC</sub>	145	V
Minimum Avalanche Breakdown Voltage at I <sub>Z</sub> = 1mA	V <sub>BR(min)</sub>	160	V
Maximum Avalanche Breakdown Voltage at I <sub>Z</sub> = 1mA	V <sub>BR(max)</sub>	180	V
Maximum Allowable Avalanche Current (Note 1)	I <sub>ZSM</sub>	1.0	A
Maximum Reverse Current at V <sub>RM</sub> T <sub>a</sub> = 25°C	I <sub>R</sub>	10	μA
Maximum Reverse Current at V <sub>RM</sub> T <sub>a</sub> = 100°C	I <sub>R(H)</sub>	50	μA
Typical Avalanche Voltage Temperature Coefficient at I <sub>Z</sub> = 1mA		+0.15	V/°C
Junction Temperature Range	T <sub>J</sub>	- 40 to + 130	°C
Storage Temperature Range	T <sub>STG</sub>	- 40 to + 150	°C

### Notes :

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

**RATING AND CHARACTERISTIC CURVES ( R2KS )**
 **$V_{R(DC)}$  -  $T_a$  Characteristic**

 **$V_Z$  Temperature Coefficient**
