

# ERB84-009

**PRV : 90 Volts**  
**I<sub>o</sub> : 2.0 Amperes**

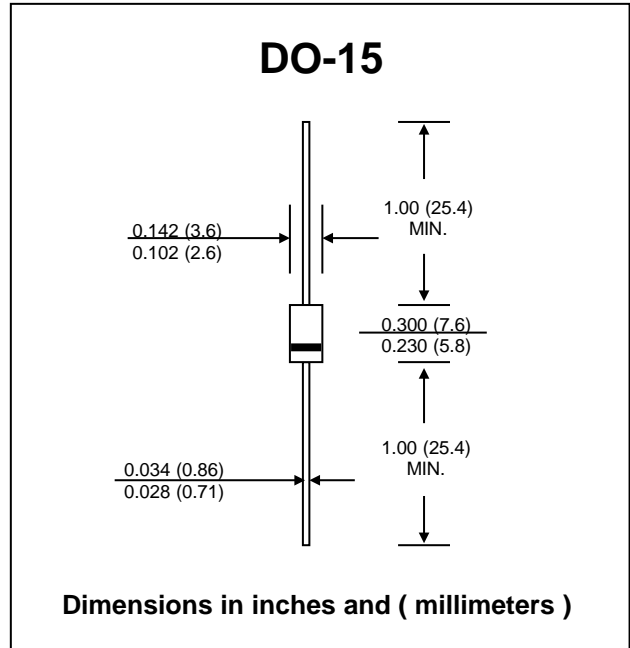
**FEATURES :**

- \* 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-0 rate flame retardant
- \* Lead : Axial lead solderable per MIL-STD-202, Method 208 guaranteed
- \* Polarity : Color band denotes cathode end
- \* Mounting position : Any
- \* Weight : 0.4 gram

# SCHOTTKY-BARRIER RECTIFIER 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 Recurrent Peak Reverse Voltage	V <sub>RRM</sub>	90	V
Maximum DC Blocking Voltage	V <sub>DC</sub>	72	V
Maximum Average Forward Current (Note 1)	I <sub>F(AV)</sub>	2.0	A
Maximum Peak Forward Surge Current single half sine wave, Superimposed on rated load	I <sub>FSM</sub>	60	A
Maximum Forward Voltage at I <sub>F</sub> = 2.0 A	V <sub>F</sub>	0.9	V
Maximum Reverse Current at V <sub>RRM</sub>	I <sub>RRM</sub>	2	mA
Junction Temperature Range	T <sub>J</sub>	- 40 to + 125	°C
Storage Temperature Range	T <sub>STG</sub>	- 40 to + 125	°C

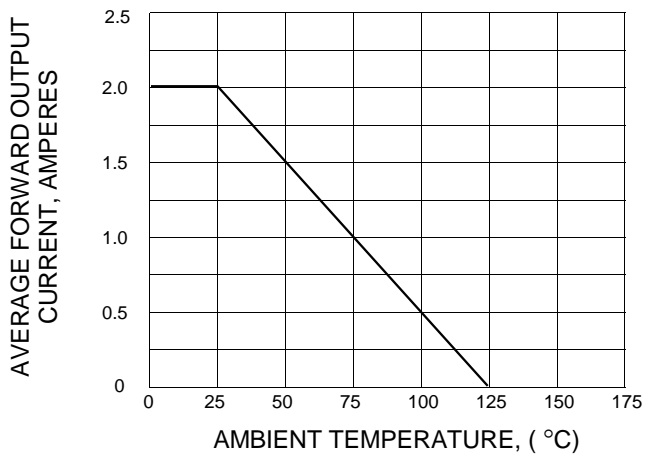
**Notes :**

(1) Mounted Cu fins (20X20mm) on the both leads

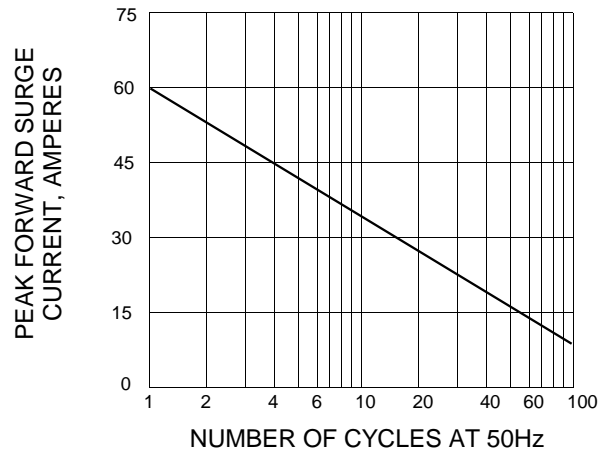


### RATING AND CHARACTERISTIC CURVES ( ERB84-009 )

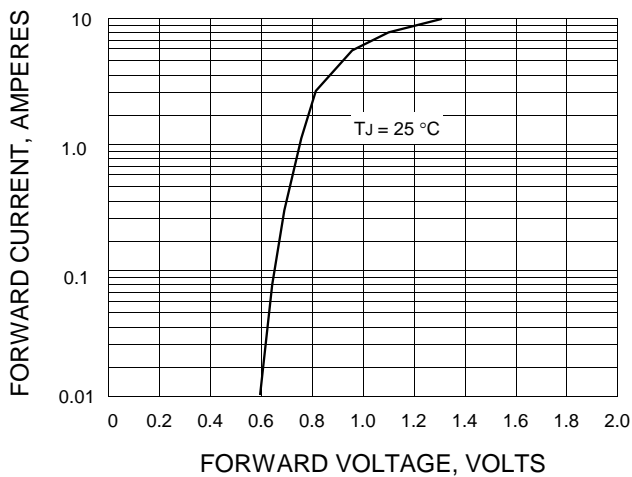
**FIG.1 - DERATING CURVE FOR OUTPUT RECTIFIED CURRENT**



**FIG.2 - MAXIMUM NON-REPETITIVE PEAK FORWARD SURGE CURRENT**



**FIG.3 - TYPICAL FORWARD CHARACTERISTICS**



**FIG.4 - TYPICAL REVERSE CHARACTERISTICS**

