

# RK43 - RK44

**PRV : 30 - 40 Volts**  
**I<sub>o</sub> : 3.0 Amperes**

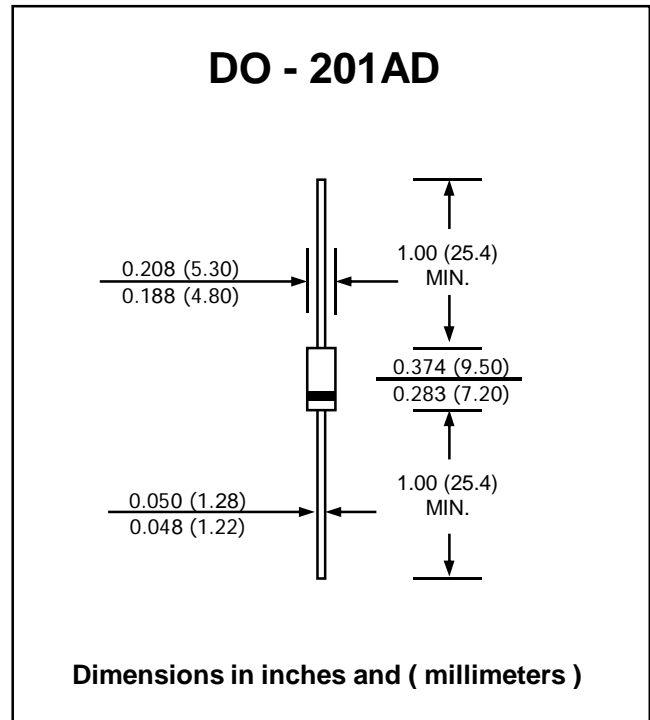
**FEATURES :**

- \* High current capability
- \* High surge current capability
- \* High reliability
- \* High efficiency
- \* Low power loss
- \* Low cost
- \* Low forward voltage drop

**MECHANICAL DATA :**

- \* Case : DO-201AD 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 : 1.1 grams

# SCHOTTKY BARRIER RECTIFIER DIODES



## 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%.

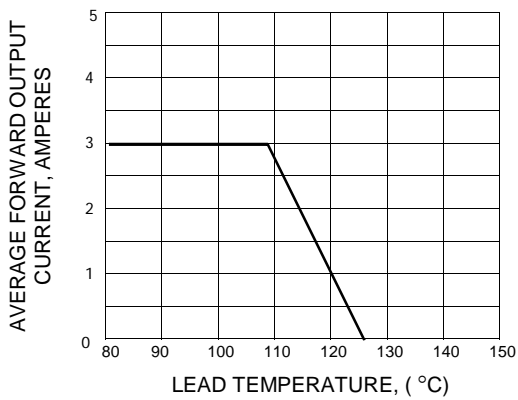
RATING	SYMBOL	RK43	RK44	UNIT
Maximum Peak Reverse Voltage	V <sub>RM</sub>	30	40	V
Maximum Peak Reverse Surge Voltage	V <sub>RSM</sub>	35	45	V
Maximum Average Forward Current T <sub>L</sub> = 109 °C	I <sub>F(AV)</sub>	3.0		A
Maximum Peak Forward Surge Current, 8.3ms single half sine wave Superimposed on rated load (JEDEC Method)	I <sub>FSM</sub>	80		A
Maximum Forward Voltage at I <sub>F</sub> = 3.0 A	V <sub>F</sub>	0.55		V
Maximum Reverse Current at V <sub>RM</sub> Ta = 25 °C	I <sub>R</sub>	5.0		mA
Maximum Reverse Current at V <sub>RM</sub> Ta = 100 °C	I <sub>R(H)</sub>	50		mA
Junction Temperature Range	T <sub>J</sub>	- 40 to + 150		°C
Storage Temperature Range	T <sub>STG</sub>	- 40 to + 150		°C

**Note :**

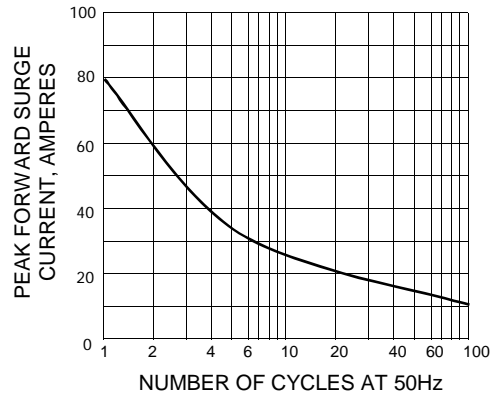
(1) Pulse Test : Pulse Width = 300 μs, Duty Cycle = 2%.

**RATING AND CHARACTERISTIC CURVES ( RK43 - RK44 )**

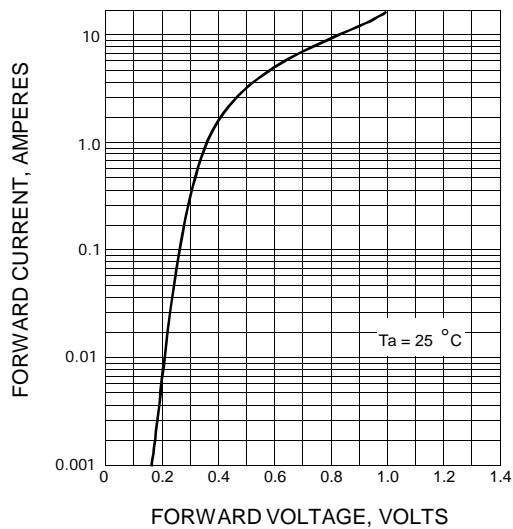
**FIG.1 - DERATING CURVE FOR OUTPUT RECTIFIED CURRENT**



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



**FIG.3 - TYPICAL FORWARD CHARACTERISTICS**



**FIG.4 - TYPICAL REVERSE CHARACTERISTICS**

