

# RK33 - RK39

**PRV : 30 - 90 Volts**  
**I<sub>o</sub> : 2.0 - 2.5 Amperes**

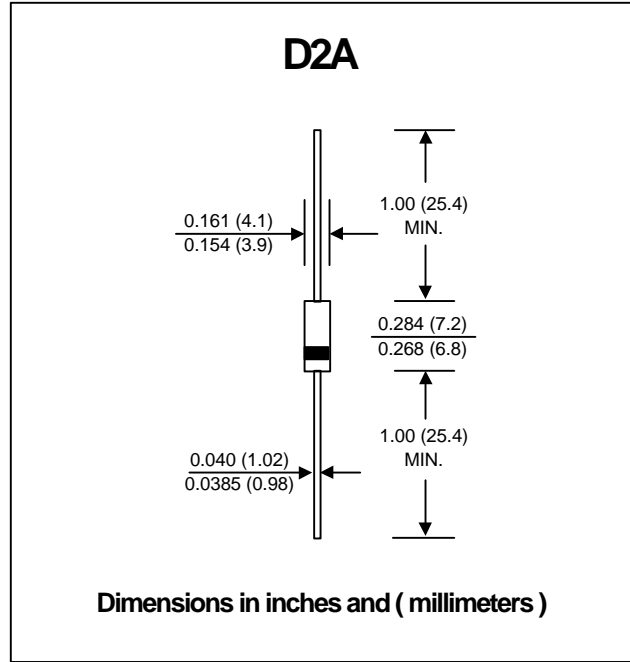
### FEATURES :

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

### MECHANICAL DATA :

- \* Case : D2A 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 : 0.645 gram

# 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	RK33	RK34	RK36	RK39	UNITS
Maximum Recurrent Peak Reverse Voltage	V <sub>RRM</sub>	30	40	60	90	Volts
Maximum DC Blocking Voltage	V <sub>DC</sub>	30	40	60	90	Volts
Maximum Average Forward Current T <sub>L</sub> = 75 °C	I <sub>F(AV)</sub>	2.5		2.0		Amps.
Peak Forward Surge Current, 8.3ms single half sine wave superimposed on rated load (JEDEC Method)	I <sub>FSM</sub>	50				Amps.
Maximum Forward Voltage at Forward current	V <sub>F</sub>	0.55	0.62	0.81		Volt.
	I <sub>F</sub>	2.5		2.0		Amps.
Maximum Reverse Current at Rated DC Blocking Voltage (Note 1)	I <sub>R</sub>	5.1	2.1	3.1		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) Pulse Test : Pulse Width = 300 μs, Duty Cycle = 2%.

## RATING AND CHARACTERISTIC CURVES ( RK33 - RK39 )

FIG.1 - FORWARD CURRENT DERATING CURVE

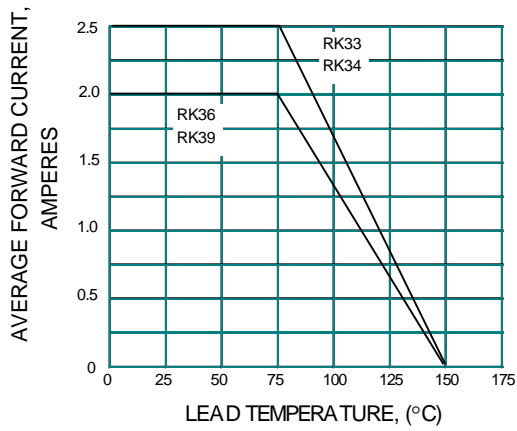


FIG.2 - MAXIMUM NON-REPETITIVE PEAK FORWARD SURGE CURRENT

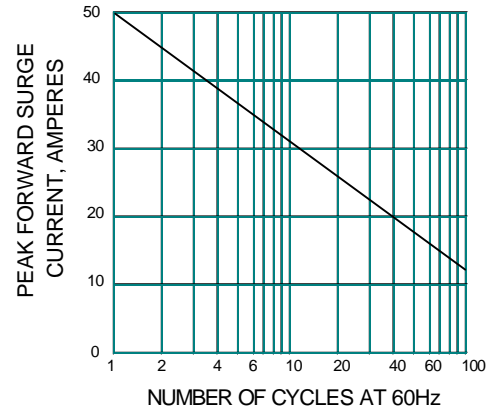


FIG.3 - TYPICAL FORWARD CHARACTERISTICS

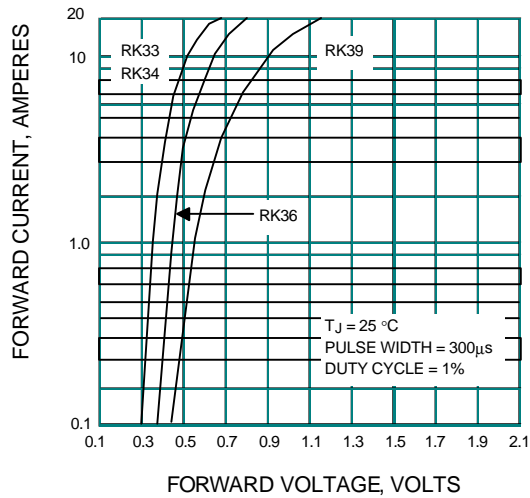


FIG.4 - TYPICAL REVERSE CHARACTERISTICS

