

RK33 - RK39

PRV : 30 - 90 Volts

I_o : 2.0 - 2.5 Amperes

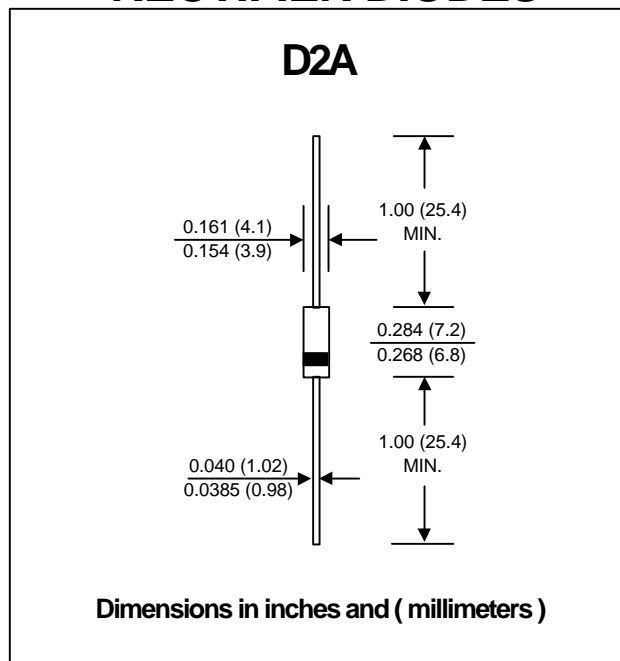
FEATURES :

- * 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 _{RRM}	30	40	60	90	Volts
Maximum DC Blocking Voltage	V _{DC}	30	40	60	90	Volts
Maximum Average Forward Current T _L = 75 °C	I _{F(AV)}	2.5		2.0		Amps.
Peak Forward Surge Current, 8.3ms single half sine wave superimposed on rated load (JEDEC Method)	I _{FSM}	50				Amps.
Maximum Forward Voltage at Forward current	V _F	0.55		0.62	0.81	Volt.
	I _F	2.5		2.0		Amps.
Maximum Reverse Current at Rated DC Blocking Voltage (Note 1)	I _R	5.1		2.1	3.1	mA
Junction Temperature Range	T _J	- 40 to + 125				°C
Storage Temperature Range	T _{STG}	- 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

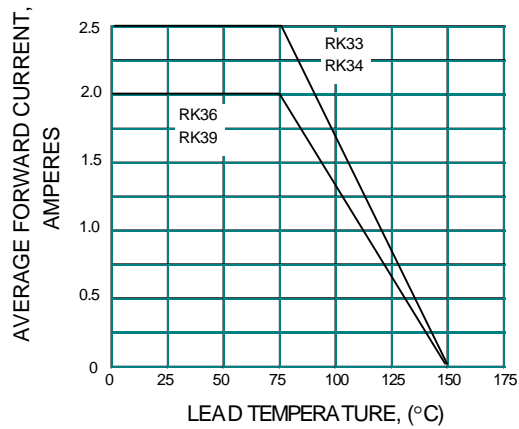


FIG.2 - MAXIMUM NON-REPETITIVE PEAK FORWARD SURGE CURRENT

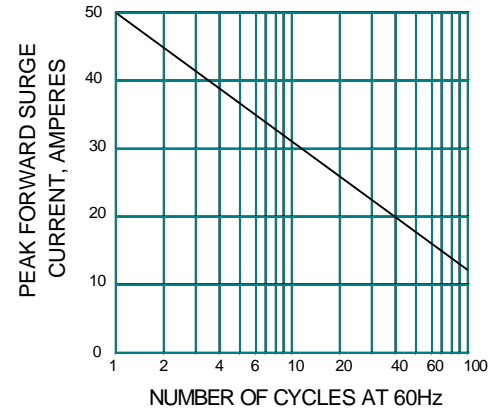


FIG.3 - TYPICAL FORWARD CHARACTERISTICS

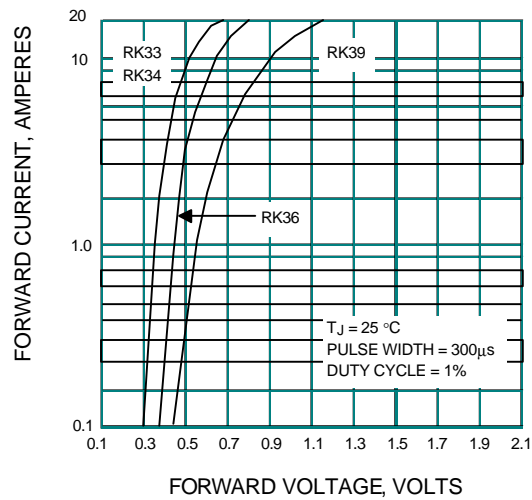


FIG.4 - TYPICAL REVERSE CHARACTERISTICS

