

RK33 - RK39

PRV : 30 - 90 Volts
I_o : 2.0 - 2.5 Amperes

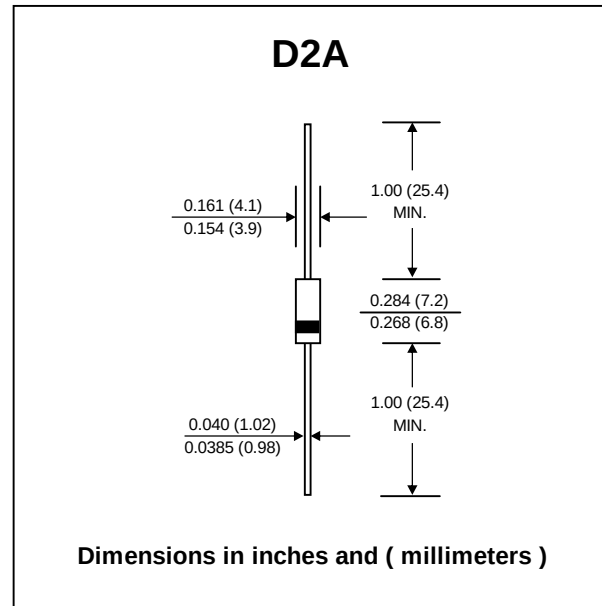
FEATURES :

- * High current capability
- * High surge current capability
- * High reliability
- * High efficiency
- * Low power loss
- * Low cost
- * Low forward voltage drop
- * **Pb / RoHS Free**

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	UNIT
Maximum Recurrent Peak Reverse Voltage	V _{RRM}	30	40	60	90	V
Maximum DC Blocking Voltage	V _{DC}	30	40	60	90	V
Maximum Average Forward Current T _L = 75 °C	I _{F(AV)}	2.5		2.0		A
Maximum Peak Forward Surge Current, 8.3ms single half sine wave Superimposed on rated load (JEDEC Method) T _L = 75°C	I _{FSM}	50		40	50	A
Maximum Forward Voltage at Forward current	V _F	0.55		0.62	0.81	V
	I _F	2.5		2.0		A
Maximum Reverse Current at V _{RM} Ta = 25 °C	I _R	5.0		2.0	3.0	mA
Maximum Reverse Current at V _{RM} Ta = 100 °C	I _{R(H)}	50		20	15	
Junction Temperature Range	T _J	- 40 to + 125				°C
Storage Temperature Range	T _{STG}	- 40 to + 125				°C

Note :

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

RATING AND CHARACTERISTIC CURVES (RK33 - RK39)

FIG.1 - FORWARD CURRENT DERATING CURVE

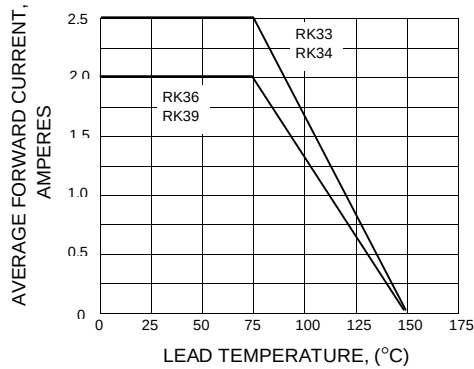


FIG.2 - MAXIMUM NON-REPETITIVE PEAK FORWARD SURGE CURRENT

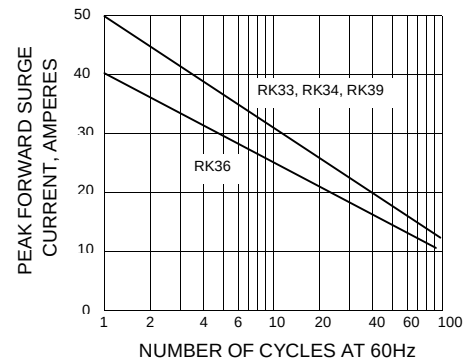


FIG.3 - TYPICAL FORWARD CHARACTERISTICS

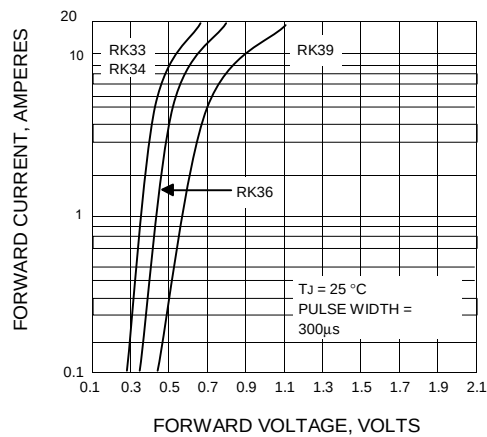


FIG.4 - TYPICAL REVERSE CHARACTERISTICS

