Certificate Number: Q10561

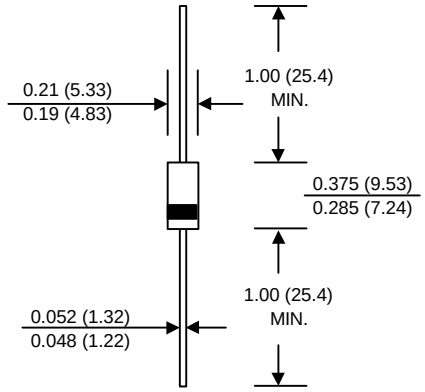
Certificate Number: E17276

RU4C

FAST RECOVERY RECTIFIERS DIODES

PRV : 1000 Volts
Io : 2.0 Amperes

DO - 201AD



Dimensions in inches and (millimeters)

FEATURES :

* High current capability
* High surge current capability
* High reliability
* Low reverse current
* Low forward voltage drop
* Pb / RoHS Free

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 : 1.16 grams

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%.

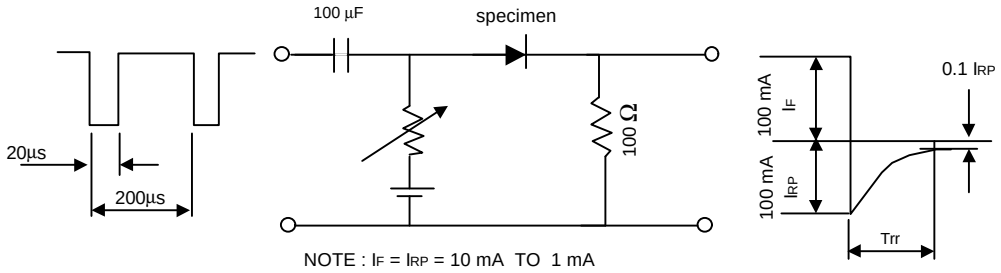
RATING	SYMBOL	RU4	UNIT
Maximum Peak Reverse Voltage	V_{RM}	100	V
Maximum Peak Reverse Surge Voltage	V_{RSM}	1050	V
Maximum Average Rectified Forward Current Ta = 60 °C	$I_{F(AV)}$	1.5 2.5 (with Heatsink)	A
Peak Forward Surge Current 50 Hz Half-cycle Sinewave Single Shot	I_{FSM}	50	A
Maximum Forward Voltage at I_F = 3 A	V_F	1.6	V
Maximum Forward Current	I_F	3.0	A
Maximum Reverse Current at Reverse Voltage Ta = 25 °C	I_R	50	µA
Maximum Reverse Current at Reverse Voltage Ta = 100 °C	$I_{R(H)}$	500	µA
Maximum Reverse Recovery Time (Note 1)	Trr	0.4	µs
Junction Temperature Range	T_J	- 40 to + 150	°C
Storage Temperature Range	T_{STG}	- 40 to + 150	°C

Notes :

(1) Reverse Recovery Test Conditions : I_F = 100 mA, I_{RP} = 100 mA.

RATING AND CHARACTERISTIC CURVES (RU4C)

FIG.1 - REVERSE RECOVERY TIME CHARACTERISTIC AND TEST CIRCUIT DIAGRAM



NOTE : $I_F = I_{RP}$ = 10 mA TO 1 mA

FIG.2 - DERATING CURVE FOR OUTPUT RECTIFIED CURRENT

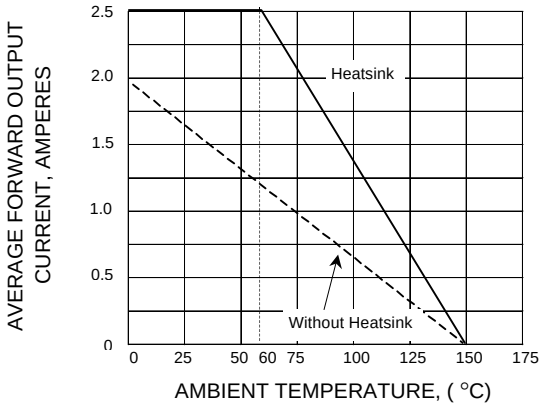


FIG.3 - MAXIMUM NON-REPETITIVE PEAK FORWARD SURGE CURRENT

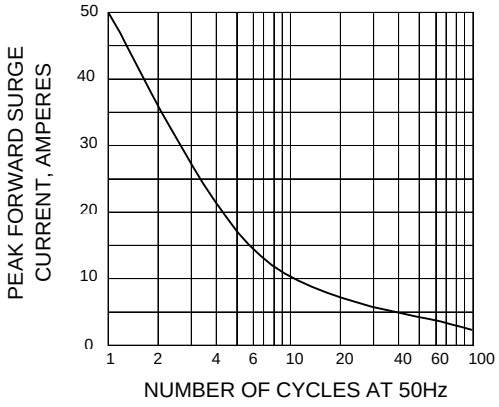


FIG.4 - TYPICAL FORWARD CHARACTERISTICS

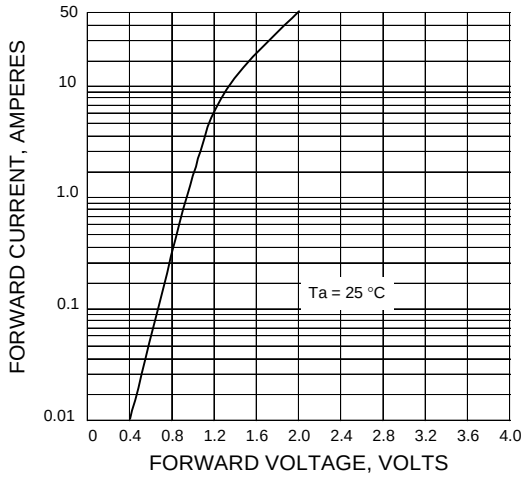


FIG.5 - TYPICAL REVERSE CHARACTERISTICS