ELECTRONICS INDUSTRY (USA) CO., LTD.

103 MOO 4, LATKRABANG EXPORT PROCESSING ZONE, LATKRABANG, BANGKOK 10520, THAILAND
TEL. : (66 2) 326-0102, 739-4580 FAX. : (66 2) 326-0933 E-mail : eicfirst @ iname.com http. : // www.eicsemi.com

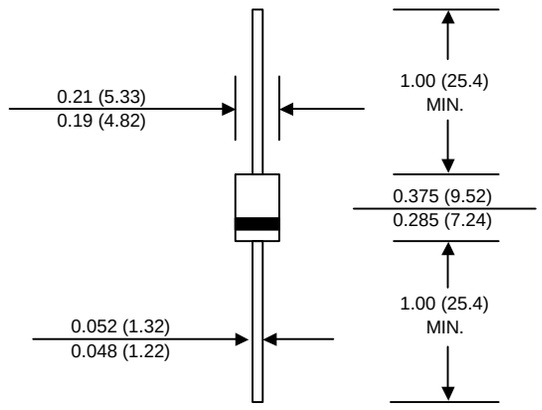
Certificate Number: Q10561 Certificate Number: E17276

RU3YX

FAST RECOVERY RECTIFIER DIODES

PRV : 100 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
* Fast switching for high efficiency

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 : 1.21 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	VALUE	UNIT
Maximum Peak Reverse Voltage	V_{RM}	100	Volts
Maximum Peak Reverse Surge Voltage	V_{RSM}	100	Volts
Maximum Average Forward Current	$I_{F(AV)}$	2.0	Amps.
Maximum Peak Forward Surge Current (50 Hz, Half-cycle, Sinewave, Single Shot)	I_{FSM}	50	Amps.
Maximum Forward Voltage at I_F = 2.0 Amps.	V_F	0.95	Volt
Maximum Reverse Current at $V_R = V_{RM}$ Ta = 25 °C	I_R	10	µA
Maximum Reverse Current at $V_R = V_{RM}$ Ta = 100 °C	$I_{R(H)}$	300	µA
Maximum Reverse Recovery Time (Note 1)	Trr	200	ns
Junction Temperature Range	T_J	- 40 to + 140	°C
Storage Temperature Range	T_{STG}	- 40 to + 140	°C

Notes :

(1) Reverse Recovery Test Conditions : I_F = 10 mA, I_{RP} = 10 mA.

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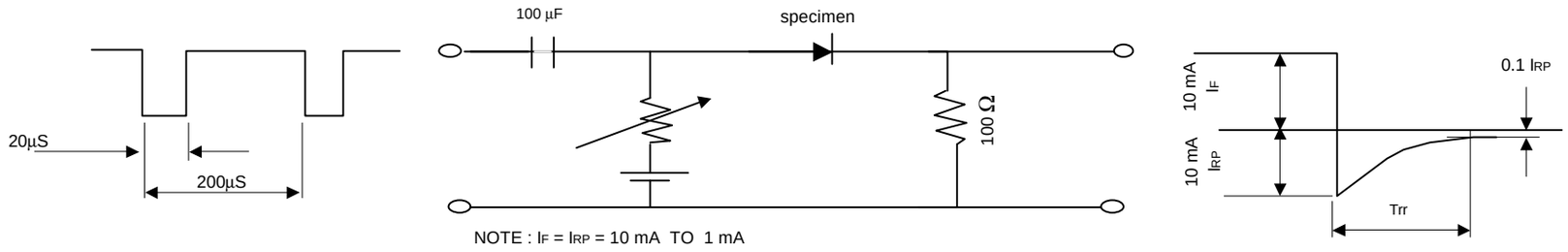
RATING AND CHARACTERISTIC CURVES (RU3YX)

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

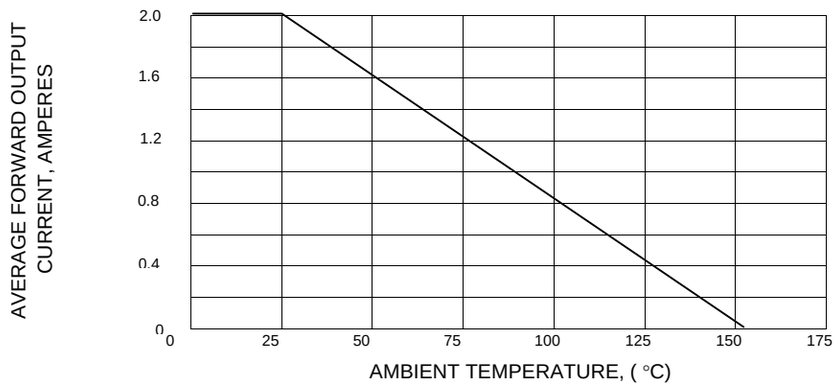


FIG.3 - MAXIMUM NON-REPETITIVE PEAK FORWARD SURGE CURRENT

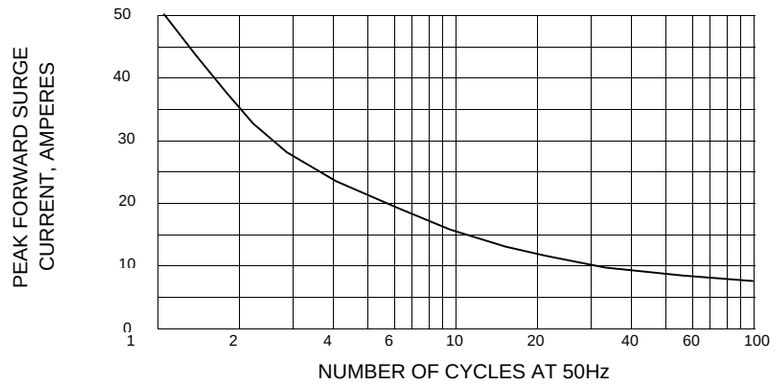


FIG.4 - TYPICAL FORWARD CHARACTERISTICS

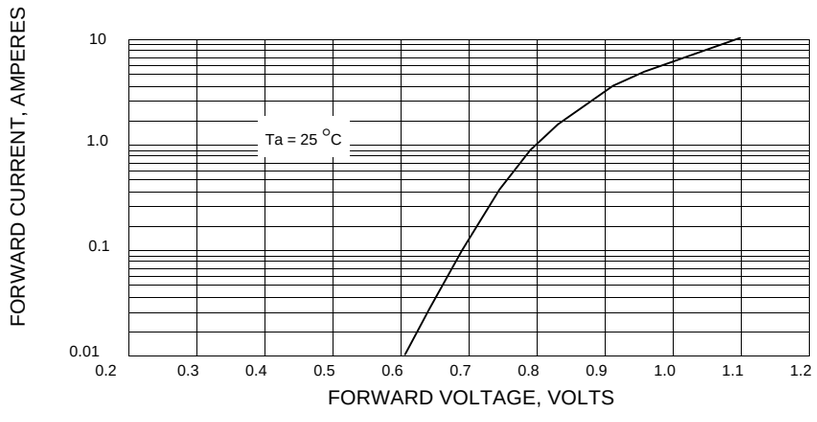


FIG.5 - TYPICAL REVERSE CHARACTERISTICS