

AU01 ~ AU01A

PRV : 200 ~ 600 Volts

Io : 0.5 Ampere

FEATURES :

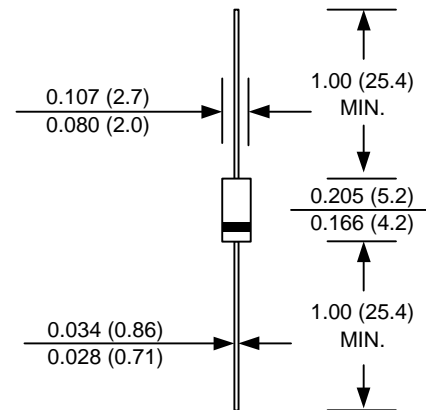
- * High current capability
- * High surge current capability
- * High reliability
- * Low reverse current
- * Low forward voltage drop
- * Fast switching for high efficiency
- * **Pb / RoHS Free**

MECHANICAL DATA :

- * Case : DO-41 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 : 0.34 gram

FAST RECOVERY RECTIFIER DIODES

DO - 41



Dimensions in inches and (millimeters)

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	AU01Z	AU01	AU01A	UNIT
Maximum Peak Reverse Voltage	V _{RM}	200	400	600	V
Maximum Peak Reverse Surge Voltage	V _{RSM}	250	450	650	V
Maximum Average Forward Current	I _{F(AV)}	0.5			A
Maximum Peak Forward Surge Current (50 Hz, Half-cycle, Sine wave, Single Shot)	I _{FSM}	15			A
Maximum Forward Voltage at I _F = 0.5 A	V _F	1.7			V
Maximum Reverse Current at Reverse Voltage Ta = 25 °C	I _R	10			μA
Maximum Reverse Current at Reverse Voltage Ta = 100 °C	I _{R(H)}	150			μA
Maximum Reverse Recovery Time (Note 1)	T _{rr}	0.4			μs
Junction Temperature Range	T _J	- 40 to + 150			°C
Storage Temperature Range	T _{STG}	- 40 to + 150			°C

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

RATING AND CHARACTERISTIC CURVES (AU01 ~ AU01A)

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

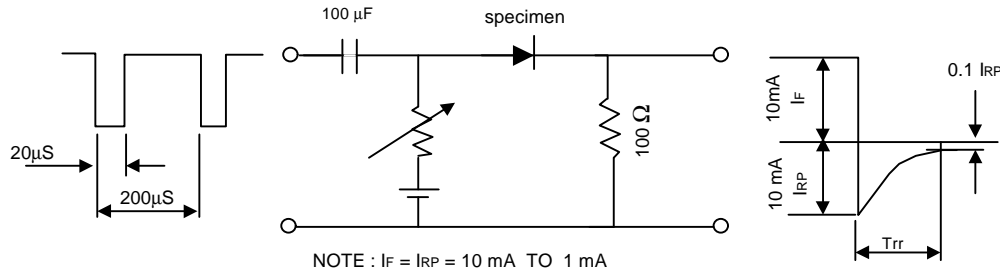


FIG.2 - DERATING CURVE FOR OUTPUT RECTIFIED CURRENT

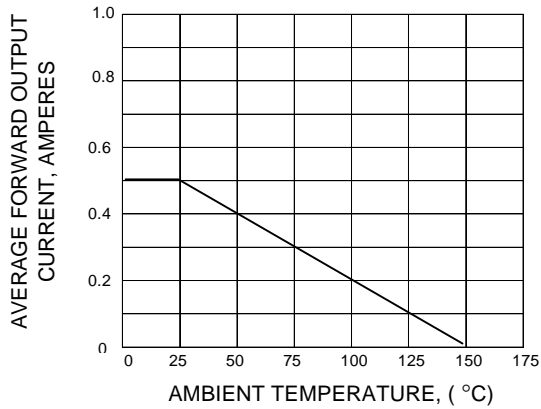


FIG.3 - MAXIMUM NON-REPETITIVE PEAK FORWARD SURGE CURRENT

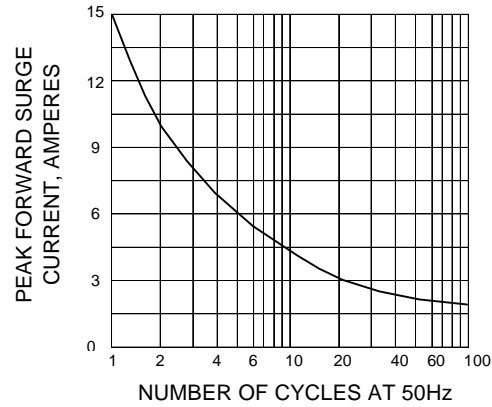


FIG.4 - TYPICAL FORWARD CHARACTERISTICS

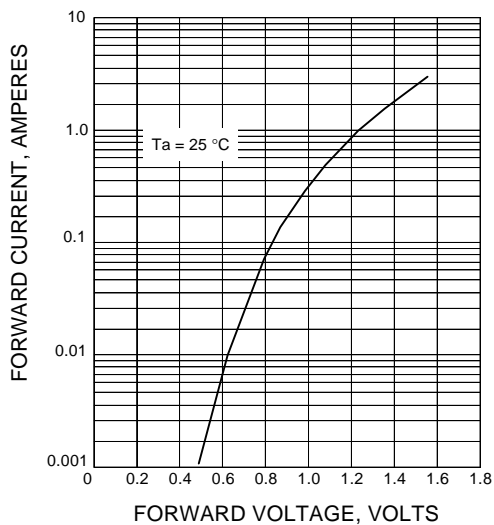


FIG.5 - TYPICAL REVERSE CHARACTERISTICS

