

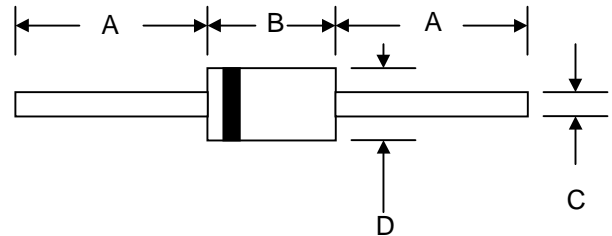
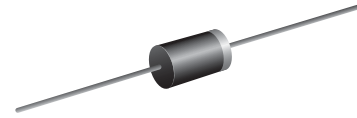
VOLTAGE RANGE: 200 - 600V
CURRENT: 0.8A

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-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 : 0.339 gram



DO-41		
Dim	Min	Max
A	25.4	—
B	4.06	5.21
C	0.71	0.864
D	2.00	2.72
All Dimensions in mm		

Maximum Ratings and Electrical Characteristics $T_A = 25^\circ\text{C}$ unless otherwise specified

Single phase, half wave, 60Hz, resistive or inductive load. For capacitive load, derate current by 20%.

Characteristic	Symbol	AU02Z	AU02	AU02A	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	$I_{F(AV)}$	0.8			A
Maximum Peak Forward Surge Current (50 Hz, Half-cycle, Sine wave, Single Shot)	I_{FSM}	25			A
Maximum Forward Voltage at $I_F = 0.8\text{ A}$	V_F	1.3			V
Maximum Reverse Current at $V_R = V_{RM}$ $T_a = 25^\circ\text{C}$	I_R	10			μA
Maximum Reverse Current at $V_R = V_{RM}$ $T_a = 100^\circ\text{C}$	$I_{R(H)}$	250			μA
Maximum Reverse Recovery Time (Note 1)	T_{rr}	0.4			μs
Junction Temperature Range	T_J	- 40 to + 150			$^\circ\text{C}$
Storage Temperature Range	T_{STG}	- 40 to + 150			$^\circ\text{C}$

Note:

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

RATING AND CHARACTERISTIC CURVES (AU02 ~ AU02A)

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

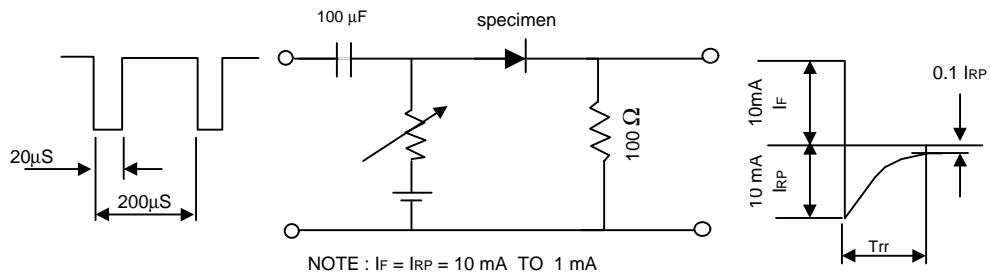


FIG.2 - DERATING CURVE FOR OUTPUT RECTIFIED CURRENT

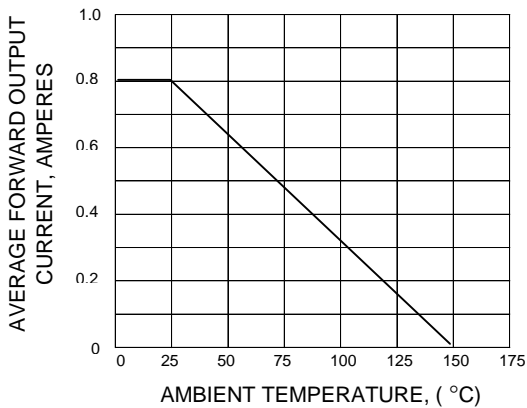


FIG.3 - MAXIMUM NON-REPETITIVE PEAK FORWARD SURGE CURRENT

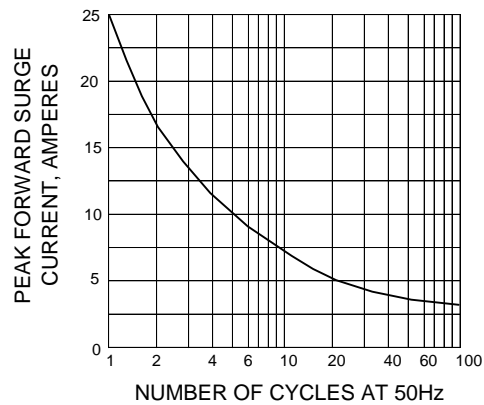


FIG.4 - TYPICAL FORWARD CHARACTERISTICS

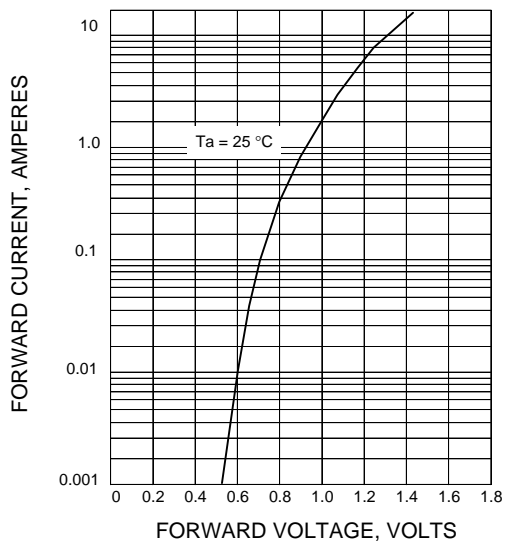


FIG.5 - TYPICAL REVERSE CHARACTERISTICS

