

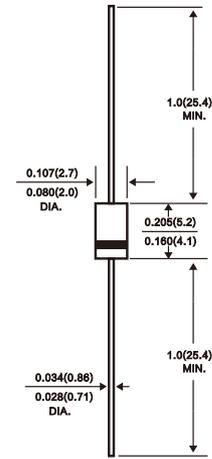
FEATURES

- Low forward voltage drop
- High current capability
- High reliability
- High surge current capability
- Exceeds environmental standards of MIL-S-19500/228

MECHANICAL DATA

Case: Molded plastic , DO-41
 Epoxy: UL 94V-O rate flame retardant
 Lead: Axial leads, solderable per MIL-STD-202,
 method 208 guaranteed
 Polarity: Color band denotes cathode end
 Mounting Position: Any
 Weight: 0.012 ounce, 0.3 gram

DO-41 (DO-204AL)



Dimensions in inches and (millimeters)

MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Ratings at 25 °C ambient temperature unless otherwise specified.

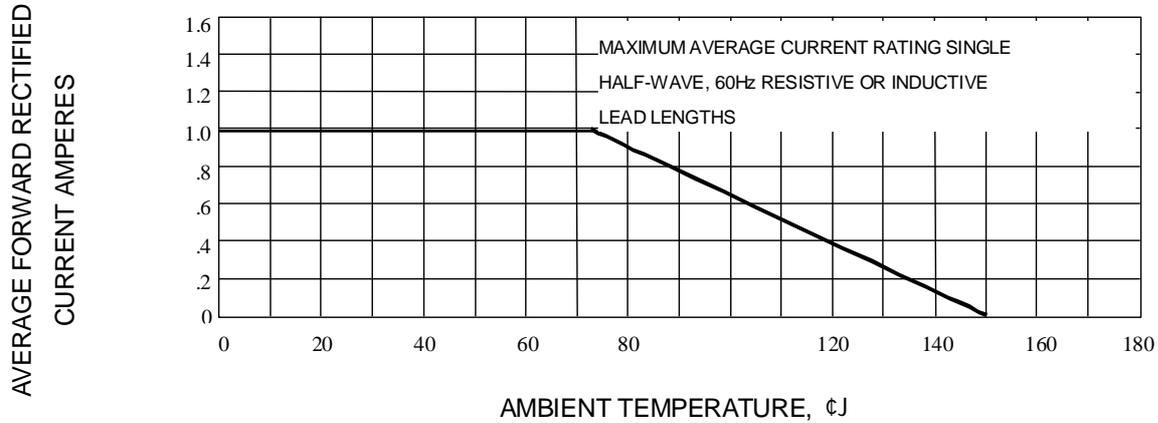
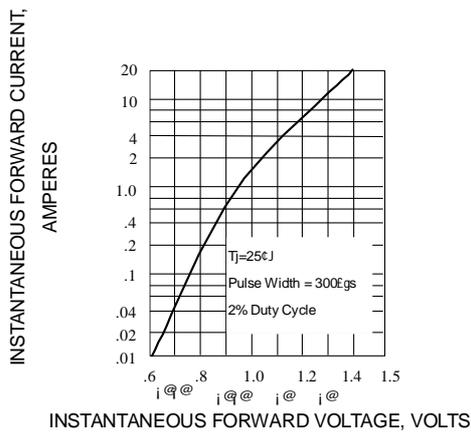
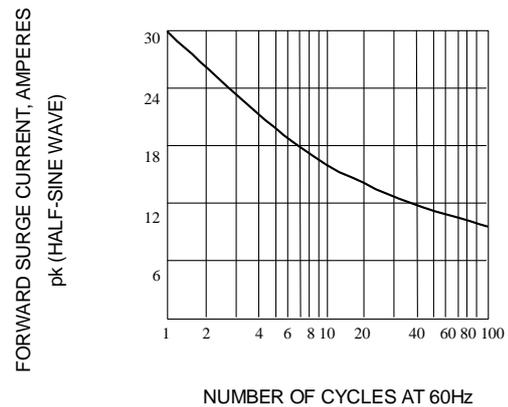
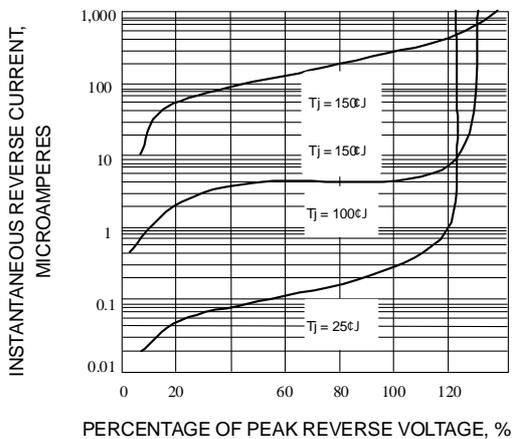
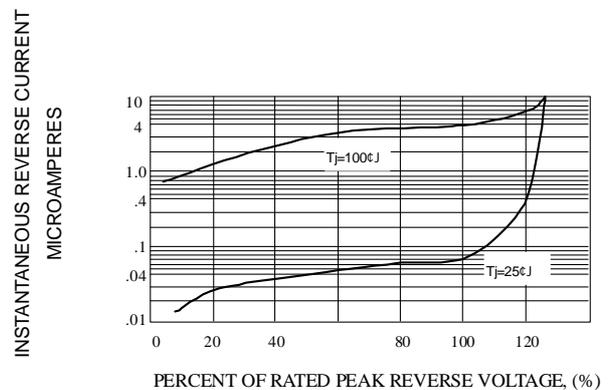
Single phase, half wave, 60 Hz, resistive or inductive load.

For capacitive load, derate current by 20%.

	1N4001	1N4002	1N4003	1N4004	1N4005	1N4006	1N4007	UNITS
Maximum Recurrent Peak Reverse Voltage	50	100	200	400	600	800	1000	V
Maximum RMS Voltage	35	75	140	280	420	560	700	V
Maximum DC Blocking Voltage	50	100	200	400	600	800	1000	V
Maximum Average Forward Rectified Current .375"(9.5mm) Lead Length at T _A =75 °C	1.0							A
Peak Forward Surge Current 8.3ms single half sine-wave superimposed on rated load (JEDEC method)	30							A
Maximum Forward Voltage at 1.0A DC and 25 °C	1.1							V
Maximum Full Load Reverse Current Full Cycle Average at 75 °C Ambient	30							µg A
Maximum Reverse Current at T _A =25 °C	5.0							µg A
At Rated DC Blocking Voltage T _A =100 °C	500							µg A
Typical Junction capacitance (Note 1)	15							pF
Typical Thermal Resistance (Note 2) R _{θJK}	50							°C/W
Typical Thermal resistance (NOTE 2) R _{θJL}	25							°C/W
Operating and Storage Temperature Range T _J , T _{STG}	-55 to +150							°C

NOTES:

1. Measured at 1 MHz and applied reverse voltage of 4.0 VDC.
2. Thermal Resistance Junction to Ambient and from junction to lead at 0.375"(9.5mm) lead length P.C.B mounted.


Fig. 1-TYPICAL FORWARD CURRENT DERATING CURVE

Fig. 2-TYPICAL FORWARD CHARACTERISTICS

Fig. 3-MAXIMUM NON-REPETITIVE FORWARD SURGE CURRENT

Fig. 4-TYPICAL REVERSE CHARACTERISTICS

Fig. 5-TYPICAL REVERSE CHARACTERISTICS