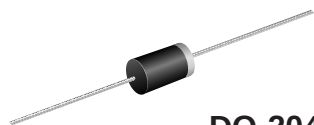


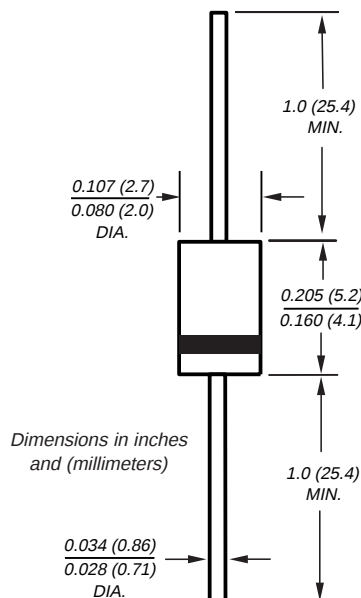
Glass Passivated Junction Rectifiers

Reverse Voltage 50 to 1000V

Forward Current 1.0A



DO-204AL (DO-41)



Features

- Plastic package has Underwriters Laboratories Flammability Classification 94V-0
- Glass passivated junction
- Capable of meeting environmental standards of MIL-S-19500
- 1.0A operation at $T_A = 75^\circ\text{C}$ with no thermal runaway
- Typical I_R less than 0.1 μA

Mechanical Data

Case: JEDEC DO-204AL, molded plastic over glass passivated chip

Terminals: Plated axial leads, solderable per MIL-STD-750, Method 2026

High temperature soldering guaranteed: $250^\circ\text{C}/10$ seconds, 0.375" (9.5mm) lead length, 5 lbs. (2.3kg) tension

Polarity: Color band denotes cathode end

Mounting Position: Any

Weight: 0.012oz., 0.3g

Maximum Ratings & Thermal Characteristics Ratings at 25°C ambient temperature unless otherwise specified.

Parameter	Symbol	GPP 10A	GPP 10B	GPP 10D	GPP 10G	GPP 10J	GPP 10K	GPP 10M	Unit
* Maximum repetitive peak reverse voltage	V_{RRM}	50	100	200	400	600	800	1000	V
* Maximum RMS voltage	V_{RMS}	35	70	140	280	420	560	700	V
* Maximum DC blocking voltage	V_{DC}	50	100	200	400	600	800	1000	V
* Maximum average forward rectified current 0.375" (9.5mm) lead length at $T_A = 75^\circ\text{C}$	$I_{F(AV)}$	1.0							A
* Peak forward surge current 8.3ms single half sine-wave superimposed on rated load (JEDEC Method)	I_{FSM}	30							A
* Maximum full load reverse current, full cycle average 0.375" (9.5mm) lead length $T_A = 75^\circ\text{C}$	$I_{R(AV)}$	30							μA
Typical thermal resistance ⁽¹⁾	$R_{\theta JA}$ $R_{\theta JL}$	50 25							$^\circ\text{C/W}$
* Operating junction and storage temperature range	T_J, T_{STG}	-55 to +150							$^\circ\text{C}$

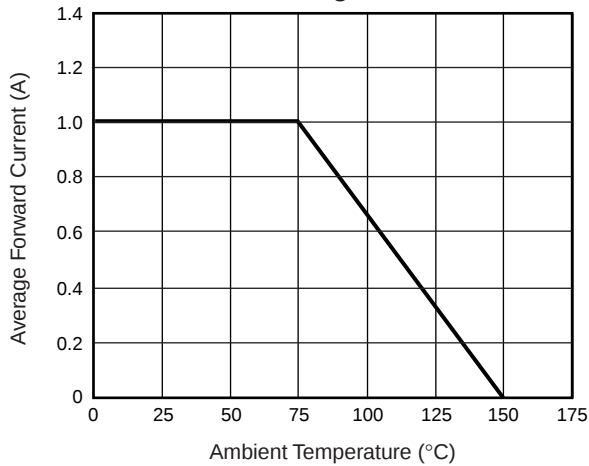
Electrical Characteristics Ratings at 25°C ambient temperature unless otherwise specified.

Parameter	Symbol	GPP 10A	GPP 10B	GPP 10D	GPP 10G	GPP 10J	GPP 10K	GPP 10M	Unit
Maximum instantaneous forward voltage at 1.0A	V_F	1.1							V
* Maximum DC reverse current $T_A = 25^\circ\text{C}$ at rated DC blocking voltage $T_A = 100^\circ\text{C}$	I_R	5.0 50							μA
Maximum junction capacitance at 4.0V, 1MHz	C_J	15							pF

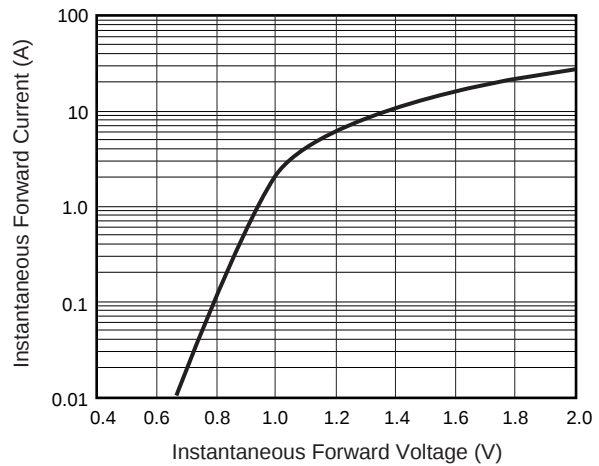
Notes: (1) Thermal resistance from junction to ambient at 0.375" (9.5mm) lead length, P.C.B. mounted
*JEDEC registered values

Ratings and Characteristic Curves

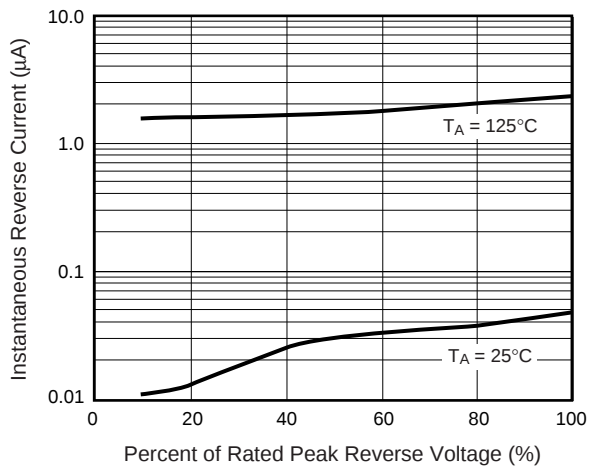
**Fig. 1 – Forward Current
Derating Curve**



**Fig. 2 – Typical Instantaneous
Forward Characteristics**



**Fig. 3 – Typical Reverse
Characteristics**



**Fig. 4 – Typical Junction
Capacitance**

