

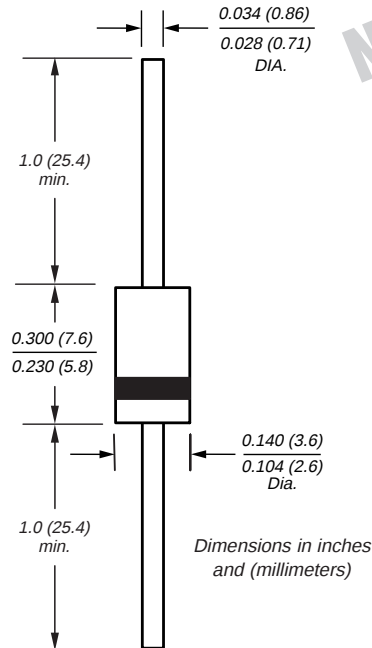
Glass Passivated Junction Rectifier

Reverse Voltage 50 to 1000V

Forward Current 2.0A



DO-204AC (DO-15)



Features

- Plastic package has Underwriters Laboratory Flammability Classification 94V-0
- Glass passivated junction
- Capable of meeting environmental standards of MIL-S-19500
- 2.0 Ampere operation at $T_A=55^\circ\text{C}$ with no thermal runaway
- Typical I_R less than 0.1 μA

Mechanical Data

Case: JEDEC DO-204AC, 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: 0.015oz., 0.4g

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

Parameter	Symbol	GPP 20A	GPP 20B	GPP 20D	GPP 20G	GPP 20J	GPP 20K	GPP 20M	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 $T_A=55^\circ\text{C}$	$I_{F(AV)}$	2.0							A
Peak forward surge current 8.3ms single half sine-wave superimposed on rated load (JEDEC Method)	I_{FSM}	70							A
Typical thermal resistance ⁽¹⁾	$R_{\theta JA}$ $R_{\theta JL}$	25 20							$^\circ\text{C}/\text{W}$
Operating junction and storage temperature range	T_J, T_{STG}	-55 to +150							$^\circ\text{C}$

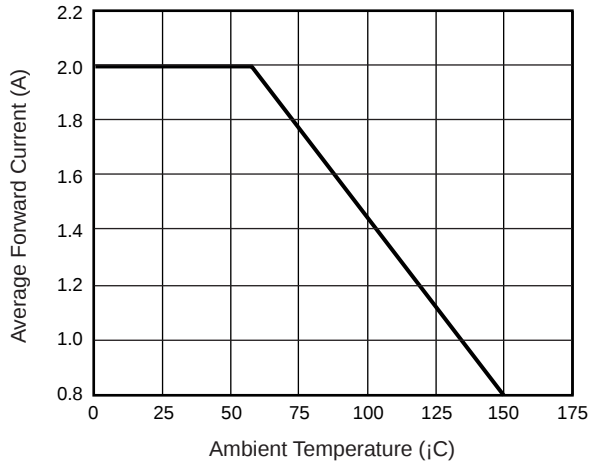
Electrical Characteristics Ratings at 25°C ambient temperature unless otherwise specified.

Parameter	Symbol	GPP 20A	GPP 20B	GPP 20D	GPP 20G	GPP 20J	GPP 20K	GPP 20M	Unit
Maximum instantaneous forward voltage at 2.0A	V_F	1.1							V
Maximum 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	25							pF

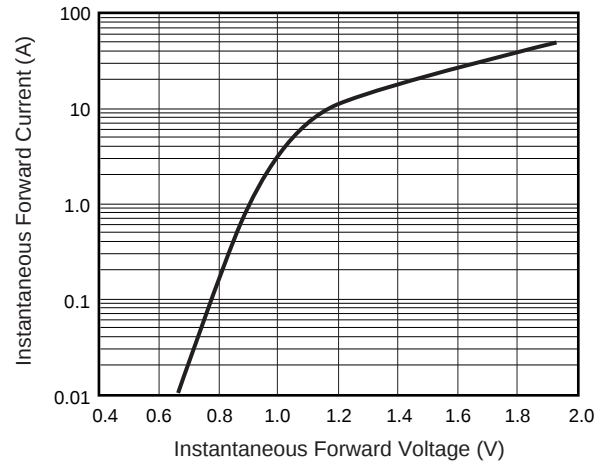
Note: (1) Thermal resistance from junction to ambient and from junction to lead at 0.375" (9.5mm) lead length, P.C.B. mounted

Ratings and Characteristic Curves

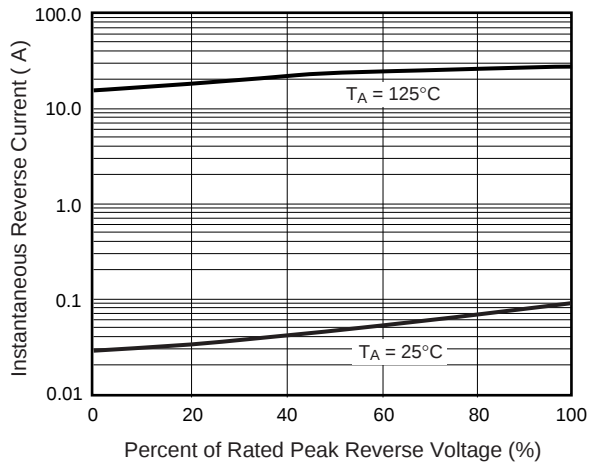
**Fig. 1 – Forward Current
Derating Curve**



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



**Fig. 3 – Typical Reverse
Characteristics**



**Fig. 4 – Typical Junction
Capacitance**

