



Glass Passivated Junction Rectifier

Major Ratings and Characteristics

$I_{F(AV)}$	1.0 A
V_{RRM}	50 V to 1000 V
I_{FSM}	30 A
I_R	5.0 μ A
V_F	1.1 V
T_j max.	150 °C



DO-204AL (DO-41)

Features

- Glass passivated chip junction
- Low forward voltage drop
- Low leakage current, typical I_R less than 0.1 μ A
- High forward surge capability
- Meets environmental standard MIL-S-19500
- Solder Dip 260 °C, 40 seconds



Mechanical Data

Case: DO-204AL, molded epoxy over passivated chip

Epoxy meets UL-94V-0 Flammability rating

Terminals: Matte tin plated (E3 Suffix) leads, solderable per J-STD-002B and JESD22-B102D

Polarity: Color band denotes cathode end

Typical Applications

For use in general purpose rectification of power supplies, inverters, converters and freewheeling diodes application

Maximum Ratings

($T_A = 25$ °C unless otherwise noted)

Parameter	Symbol	GPP10A	GPP10B	GPP10D	GPP10G	GPP10J	GPP10K	GPP10M	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" (9.5 mm) lead length at $T_A = 75$ °C	$I_{F(AV)}$	1.0							A
* Peak forward surge current 8.3 ms single half sine-wave superimposed on rated load	I_{FSM}	30							A
* Maximum full load reverse current, full cycle average 0.375" (9.5 mm) lead length $T_A = 75$ °C	$I_{R(AV)}$	30							μ A
* Operating junction and storage temperature range	T_J, T_{STG}	- 55 to + 150							°C

GPP10A thru GPP10M



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Electrical Characteristics

($T_A = 25\text{ }^\circ\text{C}$ unless otherwise noted)

Parameter	Test condition	Symbol	GPP10A	GPP10B	GPP10D	GPP10G	GPP10J	GPP10K	GPP10M	Unit
Maximum instantaneous forward voltage	at 1.0 A	V_F	1.1							V
* Maximum DC reverse current at rated DC blocking voltage	$T_A = 25\text{ }^\circ\text{C}$ $T_A = 100\text{ }^\circ\text{C}$	I_R	5.0 50							μA
Maximum junction capacitance	at 4.0 V, 1 MHz	C_J	6							pF

Thermal Characteristics

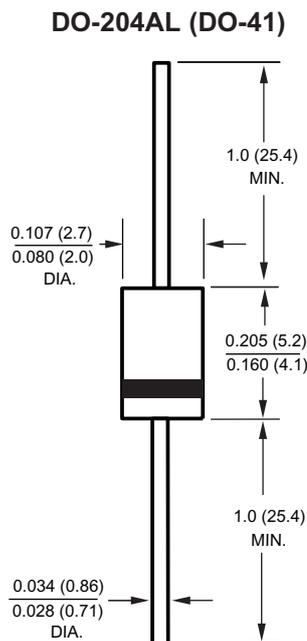
($T_A = 25\text{ }^\circ\text{C}$ unless otherwise noted)

Parameter	Symbol	GPP10A	GPP10B	GPP10D	GPP10G	GPP10J	GPP10K	GPP10M	Unit	
Typical thermal resistance ⁽¹⁾	$R_{\theta JA}$ $R_{\theta JL}$	50 25								$^\circ\text{C/W}$

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

* JEDEC registered values

Package outline dimensions in inches (millimeters)





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