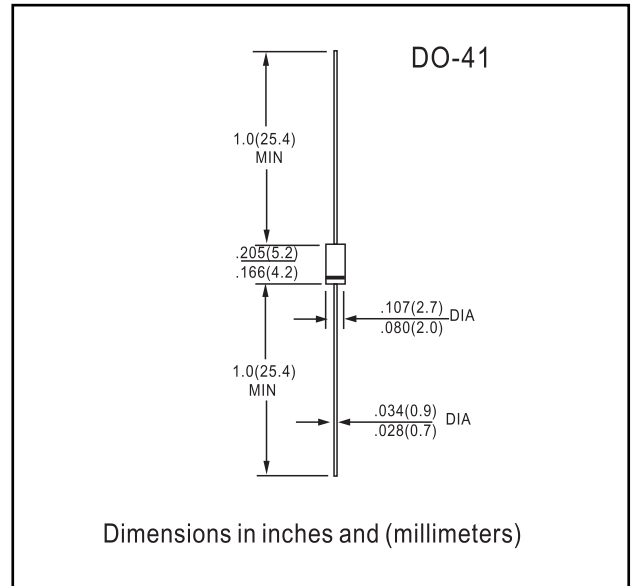


**FEATURES**

- 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  $0.1\mu\text{A}$

**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:** 0.012 oz., 0.3 g



**MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS**

<b>MAXIMUM RATINGS</b> ( $T_A = 25^\circ\text{C}$ 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 $T_A = 75^\circ\text{C}$	$I_{F(AV)}$	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 $T_A = 75^\circ\text{C}$	$I_{R(AV)}$	30							$\mu\text{A}$
Operating junction and storage temperature range	$T_J, T_{STG}$	- 55 to + 150							$^\circ\text{C}$

<b>ELECTRICAL CHARACTERISTICS</b> ( $T_A = 25^\circ\text{C}$ unless otherwise noted)										
PARAMETER	TEST CONDITIONS	SYMBOL	GPP10A	GPP10B	GPP10D	GPP10G	GPP10J	GPP10K	GPP10M	UNIT
Maximum instantaneous forward voltage	1.0 A	$V_F$	1.1							V
Maximum DC reverse current at rated DC blocking voltage	$T_A = 25^\circ\text{C}$	$I_R$	5.0							$\mu\text{A}$
	$T_A = 100^\circ\text{C}$		50							
Maximum junction capacitance	4.0 V, 1 MHz	$C_J$	6							pF





**RATINGS AND CHARACTERISTIC CURVES GPP10A THRU GPP10M**

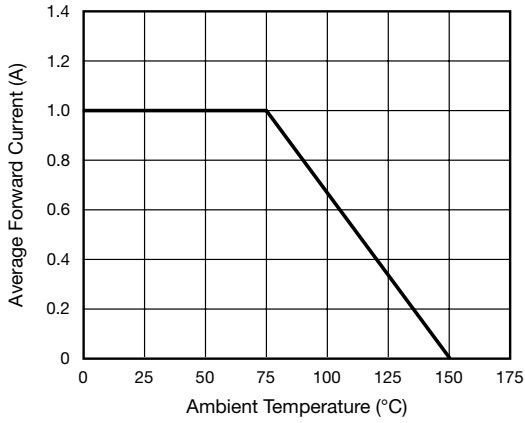


Fig. 1 - Forward Current Derating Curve

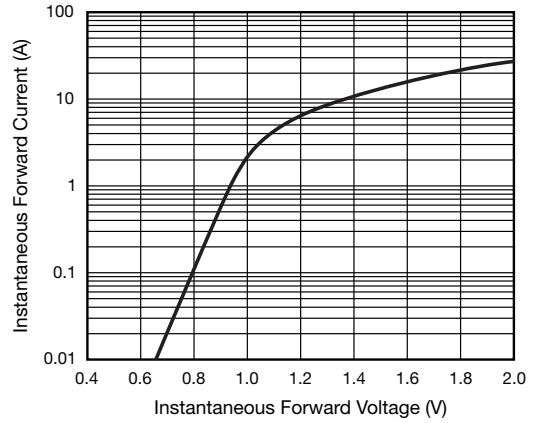


Fig. 2 - Typical Instantaneous Forward Characteristics Per Diode

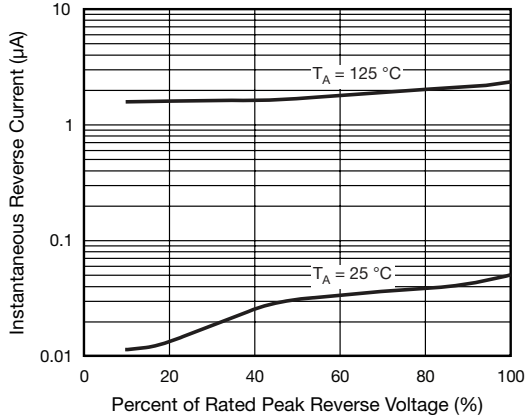


Fig. 3 - Typical Reverse Characteristics

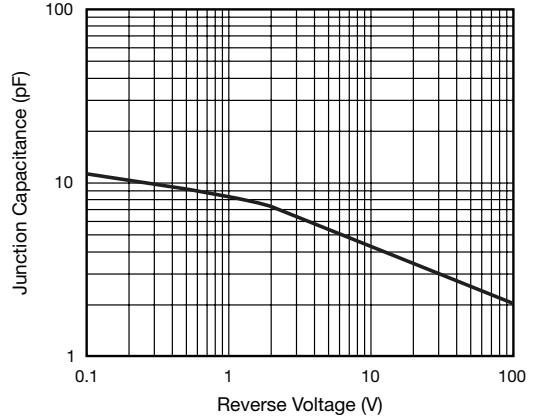


Fig. 4 - Typical Junction Capacitance

