

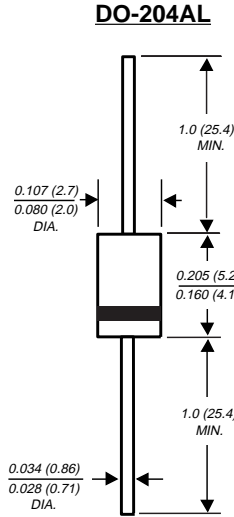
# 1N4245GP THRU 1N4249GP

## GLASS PASSIVATED JUNCTION RECTIFIER

Reverse Voltage - 200 to 1000 Volts

Forward Current - 1.0 Ampere

**PATENTED \***



NOTE: Lead diameter is  $\frac{0.026}{0.023}$  (0.66/0.58) for suffix "E" part numbers

Dimension in inches and (millimeters)

\* Glass-plastic technique is covered by

Patent No.3,996,602 and brazed-lead assembly by Patent No. 3,930,306



### FEATURES

- ◆ Plastic package has Underwriters Laboratory Flammability Classification 94V-0
- ◆ High temperature metallurgically bonded construction
- ◆ Glass passivated cavity-free junction
- ◆ Capable of meeting environmental standards of MIL-S-19500
- ◆ 1.0 Ampere operation at  $T_A=55^\circ\text{C}$  with no thermal runaway
- ◆ High temperature soldering guaranteed:  $350^\circ\text{C}/10$  seconds, 0.375" (9.5mm) lead length, 5 lbs. (2.3kg) tension



### MECHANICAL DATA

**Case:** JEDEC DO-204AL molded plastic over glass body  
**Terminals:** Plated axial leads, solderable per MIL-STD-750, Method 2026

**Polarity:** Color band denotes cathode end

**Mounting Position:** Any

**Weight:** 0.012 ounce, 0.3 gram

### MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Ratings at  $25^\circ\text{C}$  ambient temperature unless otherwise specified.

	SYMBOLS	1N 4245GP	1N 4246GP	1N 4247GP	1N 4248GP	1N 4249GP	UNITS
* Maximum repetitive peak reverse voltage	$V_{RRM}$	200	400	600	800	1000	Volts
* Maximum RMS voltage	$V_{RMS}$	140	280	420	560	700	Volts
* Maximum DC blocking voltage	$V_{DC}$	200	400	600	800	1000	Volts
* Maximum average forward rectified current 0.375" (9.5mm) lead length at $T_A=55^\circ\text{C}$	$I_{(AV)}$	1.0					Amp
* Peak forward surge current 8.3ms single half sine-wave superimposed on rated load (JEDEC Method)	$I_{FSM}$	25.0					Amps
* Maximum instantaneous forward voltage at 1.0A	$V_F$	1.2					Volts
* Maximum full load reverse current full cycle average 0.375" (9.5mm) lead length $T_A=55^\circ\text{C}$	$I_{R(AV)}$	50.0					$\mu\text{A}$
* Maximum reverse current at rated $T_A=25^\circ\text{C}$ DC blocking voltage $T_A=125^\circ\text{C}$	$I_R$	1.0 25.0					$\mu\text{A}$
Typical junction capacitance (NOTE 1)	$C_J$	8.0					pF
Typical thermal resistance (NOTE 2)	$R_{\theta JA}$ $R_{\theta JL}$	55.0 25.0					$^\circ\text{C}/\text{W}$
* Operating junction temperature range	$T_J$	-65 to +160					$^\circ\text{C}$
* Storage temperature range	$T_{STG}$	-65 to +175					$^\circ\text{C}$

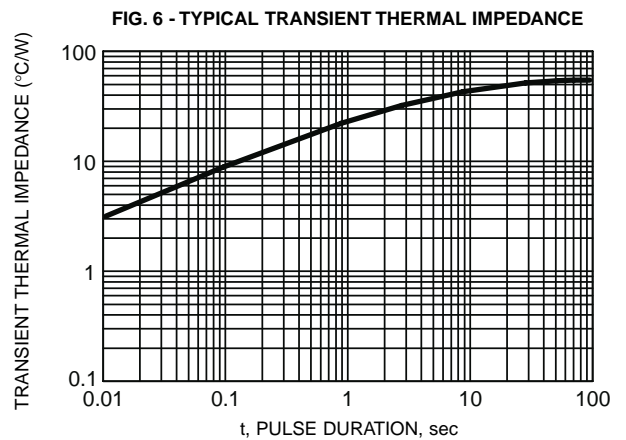
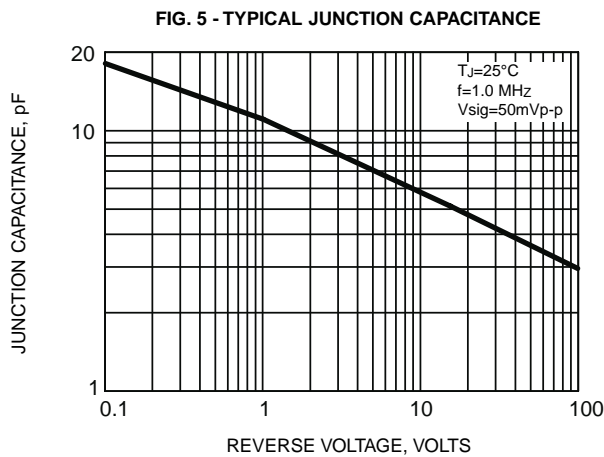
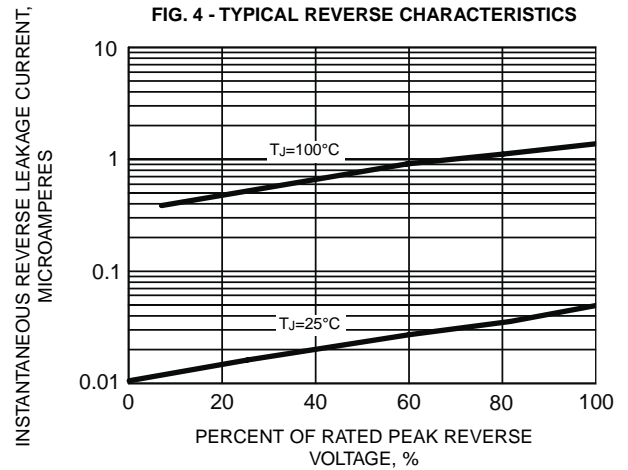
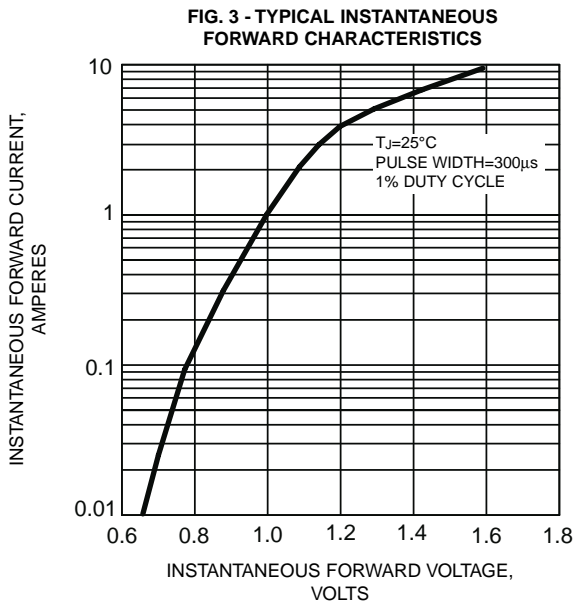
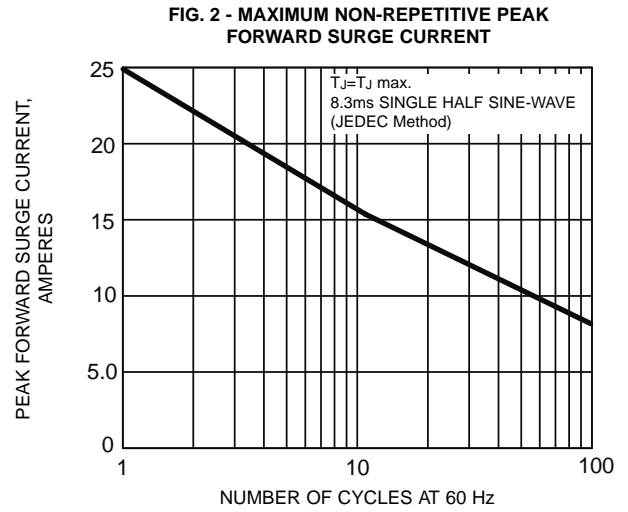
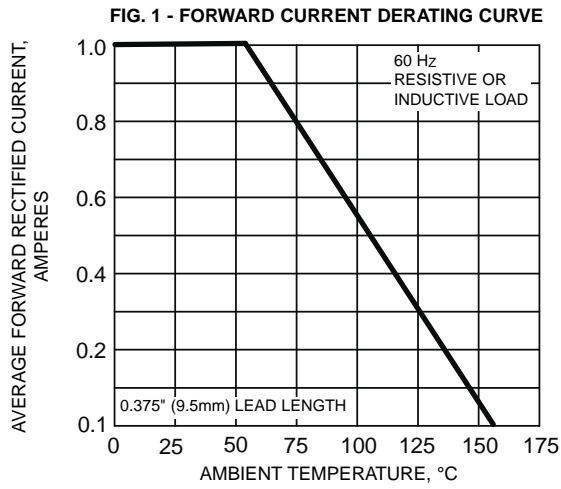
**NOTES:**

(1) Measured at 1.0 MHz and applied reverse voltage of 4.0 Volts

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

\* JEDEC registered values

# RATINGS AND CHARACTERISTIC CURVES 1N4245GP THRU 1N4249GP



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