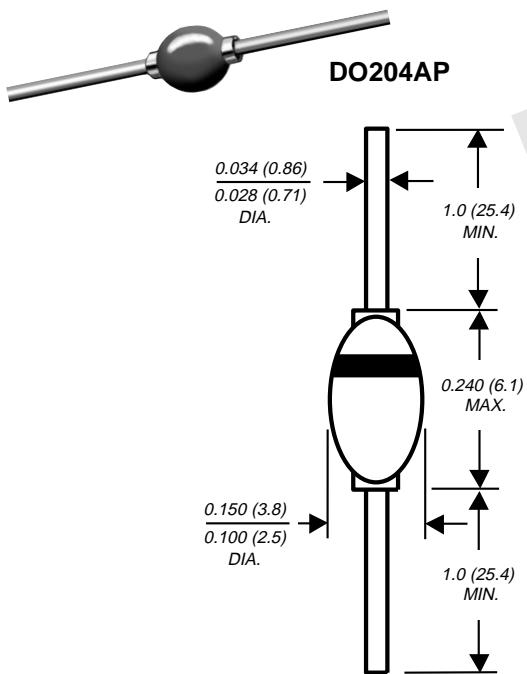


Glass Passivated Junction Rectifier

Reverse Voltage 200 to 800 V
Forward Current 1.0 A



Dimensions in inches and (millimeters)

*Brazed-lead assembly is covered by Patent No. 3,930,306

Features

- High temperature metallurgically bonded construction
- 1.0 ampere operation at TA=75°C with no thermal runaway
- Typical IR less than 0.1µA
- Hermetically sealed package
- Cavity-free glass passivated junction
- Capable of meeting environmental standards of MIL-S-19500
- High temperature soldering guaranteed:
350°C/10 seconds, 0.375" (9.5mm) lead length,
5 lbs. (2.3kg) tension

Mechanical Data

Case: JEDEC DO-204AP Solid glass body

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

Polarity: Color band denotes cathode end

Mounting Position: Any

Weight: 0.02 ounce, 0.56 gram

Maximum Ratings & Thermal Characteristics

Ratings at 25°C ambient temperature unless otherwise specified.

	SYMBOLS	1N5059	1N5060	1N5061	1N5062	UNITS
* Maximum repetitive peak reverse voltage	V _{RRM}	200	400	600	800	V
Maximum RMS voltage	V _{RMS}	140	280	420	560	V
* Maximum DC blocking voltage	V _{DC}	200	400	600	800	V
* Maximum average forward rectified current 0.375" (9.5mm) lead length at TA=75°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}			50		A
* Maximum full load reverse current, full cycle average 0.375" (9.5mm) lead length at TA=25°C TA=75°C	I _{R(AV)}		5.0			µA
		150		100		
Typical thermal resistance (NOTE 3)	R _{θJA}		55			°C/W
* Operating junction and storage temperature range	T _J , T _{STG}		-65 to +175			°C

Electrical Characteristics

Ratings at 25°C ambient temperature unless otherwise specified.

	SYMBOLS	1N5059	1N5060	1N5061	1N5062	UNITS
* Maximum instantaneous forward voltage at 1.0A	V _F		1.2			V
* Maximum DC reverse current at rated DC blocking voltage	I _R		5.0			µA
TA=25°C TA=175°C		300		200		
Typical reverse recovery time at I _F =0.5A, I _R =1.0A, I _{RR} =0.25A	t _{rr}		1.5			µs
Typical 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 ($T_A = 25^\circ\text{C}$ unless otherwise noted)

FIG. 1 - FORWARD CURRENT DERATING CURVE

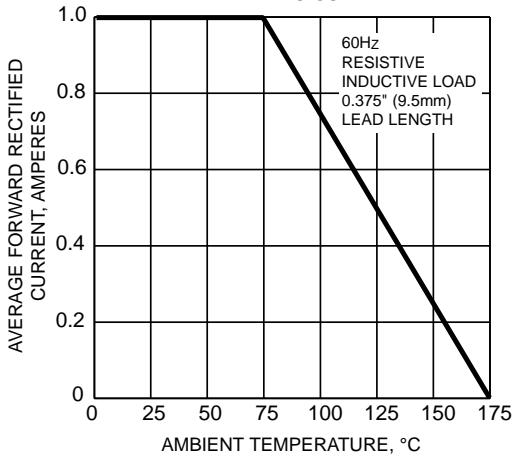


FIG. 2 - MAXIMUM NON-REPETITIVE PEAK FORWARD SURGE CURRENT

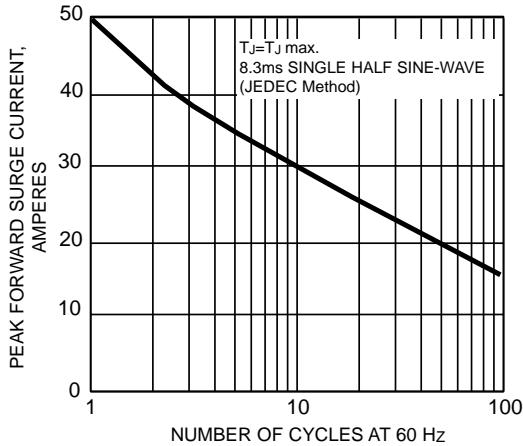


FIG. 3 - TYPICAL INSTANTANEOUS FORWARD CHARACTERISTICS

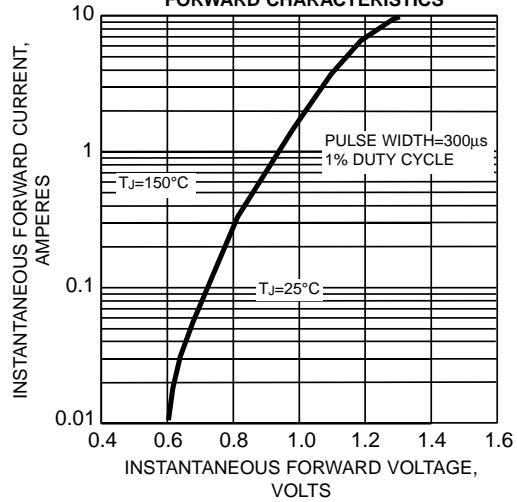


FIG. 4 - TYPICAL REVERSE CHARACTERISTICS

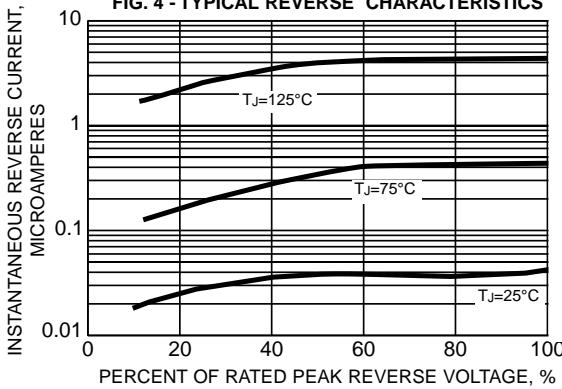


FIG. 5 - TYPICAL JUNCTION CAPACITANCE

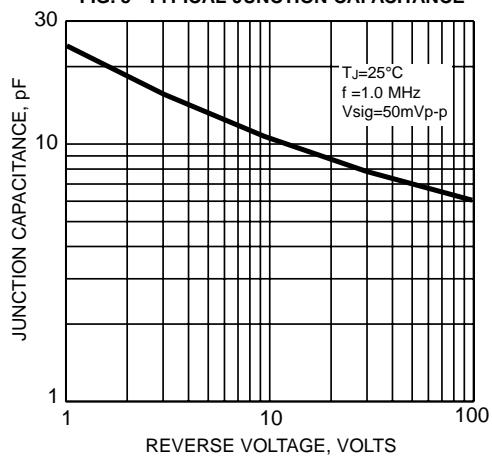


FIG. 6 - MAXIMUM NON-REPETITIVE PEAK PULSE REVERSE AVALANCHE POWER DISSIPATION

