

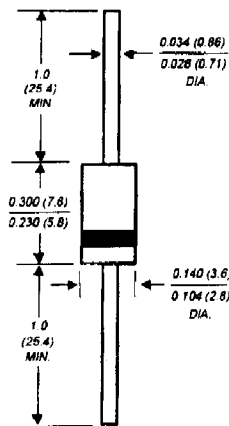
1N4383GP THRU 1N4385GP 1N4585GP AND 1N4586GP

GLASS PASSIVATED JUNCTION RECTIFIER

Reverse Voltage - 200 to 1000 Volts

Forward Current - 1.0 Ampere

DO-204AC



Dimensions in inches and (millimeters)

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 $T_A=100^\circ\text{C}$ 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

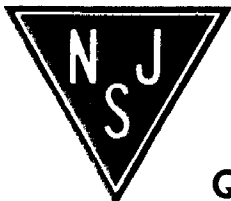
MECHANICAL DATA

Case: JEDEC DO-204AC 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: 0.015 ounce, 0.4 gram



NJ Semi-Conductors reserves the right to change test conditions, parameter limits and package dimensions without notice. Information furnished by NJ Semi-Conductors is believed to be both accurate and reliable at the time of going to press. However, NJ Semi-Conductors assumes no responsibility for any errors or omissions discovered in its use. NJ Semi-Conductors encourages customers to verify that datasheets are current before placing orders.

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MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Ratings at 25°C ambient temperature unless otherwise specified

	SYMBOLS	1N 4383GP	1N 4384GP	1N 4385GP	1N 4585GP	1N 4588GP	UNITS
* Maximum repetitive peak reverse voltage	VRRM	200	400	600	800	1000	Volts
* Maximum RMS voltage	VRMS	140	280	420	560	700	Volts
* Maximum DC blocking voltage	VDC	200	400	600	800	1000	Volts
* Maximum average forward rectified current 0.375" (9.5mm) lead length at TA=100°C	I(AV)	1.0					Amp
* Peak forward surge current 8.3ms single half sine-wave superimposed on rated load (JEDEC Method) at TA=100°C	IFSM	50.0					Amps
Maximum instantaneous forward voltage at 1.0A	VF	1.0					Volts
Maximum DC reverse current at rated DC blocking voltage	IR	5.0 250.0					μA
* Typical reverse recovery time (NOTE 1)	tr	2.0					μs
Maximum full load reverse current full cycle average at 0.375" (9.5mm) lead length at TA=100°C	IR(AV)	275	250	225	200	200	μA
Typical junction capacitance (NOTE 2)	Cj	15.0					pF
Typical thermal resistance (NOTE 3)	RθJA	45.0					°C/W
* Operating junction and storage temperature range	TJ, TSTG	-65 to +175					°C

NOTES:

- (1) Reverse recovery test conditions: IF=0.5A, IR=1.0A, IRR=0.25A
 - (2) Measured at 1.0 MHz and applied reverse voltage of 4.0 Volts
 - (3) Thermal resistance from junction to ambient at 0.375" (9.5mm) lead length, P.C.B. mounted
- * JEDEC registered values