New Jersey Semi-Conductor Products, Inc.

20 STERN AVE. SPRINGFIELD, NEW JERSEY 07081 U.S.A. TELEPHONE: (973) 376-2922 (212) 227-6005 FAX: (973) 376-8960

1N4383GP THRU 1N4385GP 1N4585GP AND 1N4586GP

GLASS PASSIVATED JUNCTION RECTIFIER

Reverse Voltage - 200 to 1000 Volts Forward Current - 1.0 Ampere



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°C with no thermal runaway
- High temperature soldering guaranteed: 350°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.

Quality Semi-Conductors

MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

	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	Vpc	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 Ta=25°C at rated DC blocking voltage Ta=150°C	İR	5.0 250.0					μA
* Typical reverse recovery time (NOTE 1)	trr	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)	Reja	45.0					°C/W
* Operating junction and storage temperature range	TJ, TSTG	-65 to +175					°C

NOTES: (1) Reverse recovery test conditions: Ir=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