

1N4383GP THRU 1N4385GP 1N4585GP AND 1N4586GP

MINIATURE GLASS PASSIVATED JUNCTION PLASTIC RECTIFIER
 Voltage - 200 to 1000 Volts Current - 1.0 Ampere

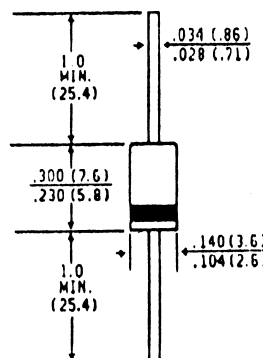
MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Ratings at 25°C ambient temperature unless otherwise specified. Single half wave, 60 Hz, resistive or inductive load.
 For capacitive load, derate current by 20%

	SYMBOLS	1N 4383GP	1N 4384GP	1N 4385GP	1N 4585GP	1N 4586GP	UNITS
* Maximum Recurrent 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 .375", (9.5mm) Lead Lengths	I _(AV)	1.0					Amps
* Peak Forward Surge Current 8.3ms single half sine-wave superimposed on rated load (JEDEC Method) at T _A = 100°C	I _{FSM}	50.0					Amps
Maximum Instantaneous Forward Voltage at 1.0A	V _F	1.0					Volts
Maximum DC Reverse Current T _A = 25°C at Rated DC Blocking Voltage T _A = 150°C	I _R	5.0 250					μA
* Typical Reverse Recovery Time (Note 2)	T _{RR}	2.0					μs
Maximum Full Load Reverse Current Full Cycle Average at .375" (9.5mm) Lead Lengths, T _A = 100°C	I _{R(AV)}	275	250	225	200	200	μA
Typical Junction Capacitance (Note 1)	C _J	15.0					pf
Typical Thermal Resistance (Note 3)	R _{θJA}	25.0					°C/W
* Operating and Storage Temperature Range	T _J , T _{STG}	-65 to +175					°C

- NOTES: 1. Measured at 1.0 MHz and applied reverse voltage of 4.0 Volts
 2. Reverse Recovery Test Conditions: I_F = 0.5A, I_R = 1.0A, I_{rr} = 0.25A.
 3. Thermal Resistance from Junction to Ambient at .375" (9.5mm) Lead Lengths, P.C. Board Mounted.
 * JEDEC registered values

DO-15



Dimensions in inches and (millimeters)



Quality Semi-Conductors