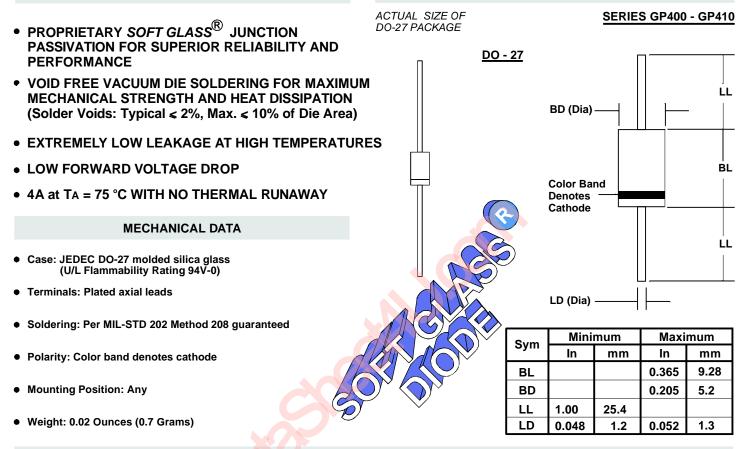


4 AMP HIGH RELIABILITY SOFT GLASS PASSIVATED SILICON DIODES

FEATURES

MECHANICAL SPECIFICATION



MAXIMUM RATINGS & ELECTRICAL CHARACTERISTICS

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

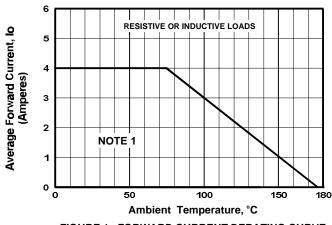
PARAMETER (TEST CONDITIONS)	SYMBOL	RATINGS							UNITS
Series Number		GP400	GP401	GP402	GP404	GP406	GP408	GP410	
Maximum DC Blocking Voltage	Vrm	50	100	200	400	600	800	1000	
Maximum RMS Voltage	Vrms	35	70	140	280	420	560	700	VOLTS
Maximum Peak Recurrent Reverse Voltage	Vrrm	50	100	200	400	600	800	1000	
Average Forward Rectified Current @ TA = 75 °C, Lead length = 0.375 in. (9.5 mm)	lo	4						AMPS	
Peak Forward Surge Current (8.3 mSec single half sine wave superimposed on rated load)	IFSM	200							
Maximum Forward Voltage at 4 Amps DC	Vfm	1							VOLTS
Maximum Full Cycle Reverse Current @ TL = 75 °C (Note 1)	IRM(AV)	20							μΑ
Maximum Average DC Reverse Current@ TA = 25°CAt Rated DC Blocking Voltage@ TA = 100°C	Iгм	2 50							
Typical Thermal Resistance, Junction to Ambient (Note 1)	Reja	18							°C/W
Typical Junction Capacitance (Note 2)	CJ	70							pF
Operating and Storage Temperature Range	ТЈ, ТЅТС	-65 to +175						°C	

NOTES: (1) Lead length = 0.375 in. (9.5 mm)

(2) Measured at 1MHz & applied reverse voltage of 4 volts



4 AMP HIGH RELIABILITY SOFT GLASS PASSIVATED SILICON DIODES



RATING & CHARACTERISTIC CURVES FOR SERIES GP400 - GP410

FIGURE 1. FORWARD CURRENT DERATING CURVE

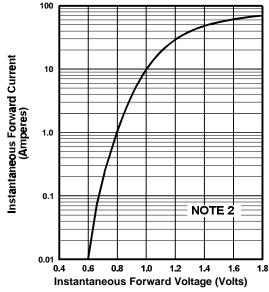


FIGURE 3. TYPICAL FORWARD CHARACTERISTICS

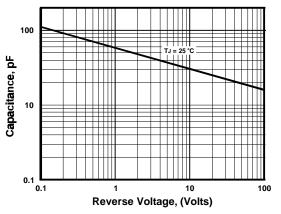


FIGURE 5. TYPICAL JUNCTION CAPACITANCE

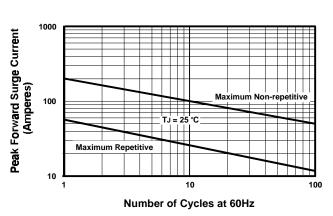
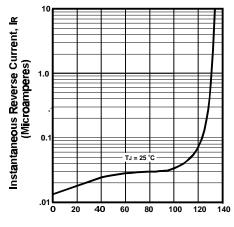


FIGURE 2. FORWARD SURGE CURRENT



Percent of Rated Peak Reverse Voltage FIGURE 4. TYPICAL REVERSE CHARACTERISTICS

NOTES

(1) Single Phase, Half Wave, 60 Hz; Lead Length = 0.375" (9.5mm)

(2) TJ = 25 °C, Pulse Width = 300 μ Sec, 1.0% Duty Cycle