

BY550G-400

GLASS PASSIVATED JUNCTION RECTIFIER

VOLTAGE: 400V

CURRENT: 5.0A



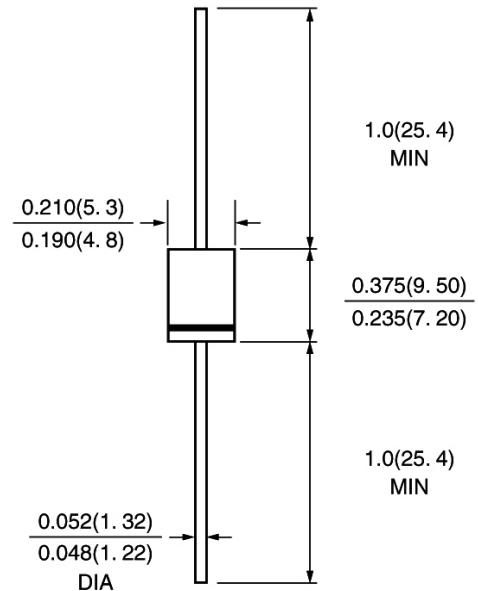
FEATURE

Molded case feature for auto insertion
High current capability
Low leakage current
High surge capability
High temperature soldering guaranteed
250°C /10sec/0.375" lead length at 5 lbs tension
Glass Passivated chip

MECHANICAL DATA

Terminal: Plated axial leads solderable per
MIL-STD 202E, method 208C
Case: Molded with UL-94 Class V-0 recognized Flame
Retardant Epoxy
Polarity: color band denotes cathode
Mounting position: any

DO - 201AD



Dimensions in inches and (millimeters)

MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

(single-phase, half-wave, 60HZ, resistive or inductive load rating at 25°C, unless otherwise stated, for capacitive load, derate current by 20%)

	SYMBOL	BY550G-20S	units
Maximum Recurrent Peak Reverse Voltage	V _{rrm}	400	V
Maximum RMS Voltage	V _{rms}	280	V
Maximum DC blocking Voltage	V _{dc}	400	V
Maximum Average Forward Rectified Current 3/8" lead length at Ta =60°C	I _{f(av)}	5.0	A
Peak Forward Surge Current 8.3ms single half sine-wave superimposed on rated load	I _{fsm}	300.0	A
Maximum Instantaneous Forward Voltage at rated forward current	V _f	1.15	V
Maximum DC Reverse Current at rated DC blocking voltage Ta =25°C Ta =125°C	I _r	20.0 200.0	μA
Typical Junction Capacitance (Note 1)	C _j	50	pF
Operating Temperature (Note 2)	R _{th(ja)}	18	°C/W
Storage and Operating Junction Temperature	T _{stg, Tj}	-55 to +150	°C

Note:

1. Measured at 1.0 MHz and applied voltage of 4.0Vdc
2. Thermal Resistance from Junction to Ambient at 0.375" lead length, P.C. Board Mounted

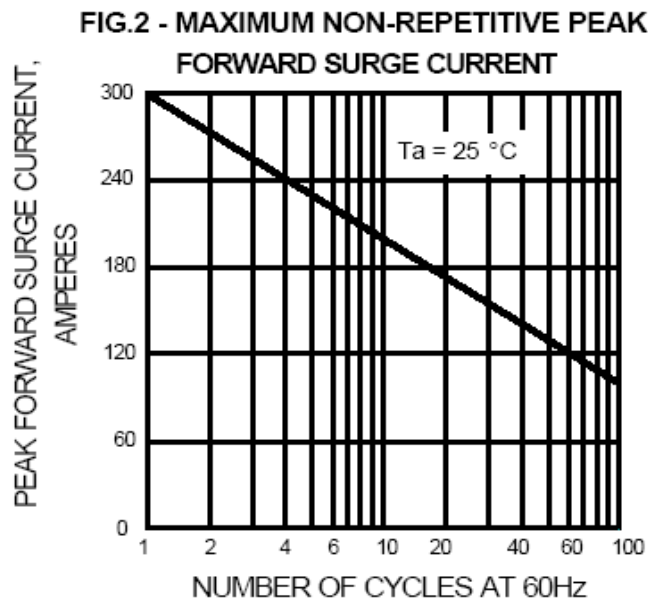
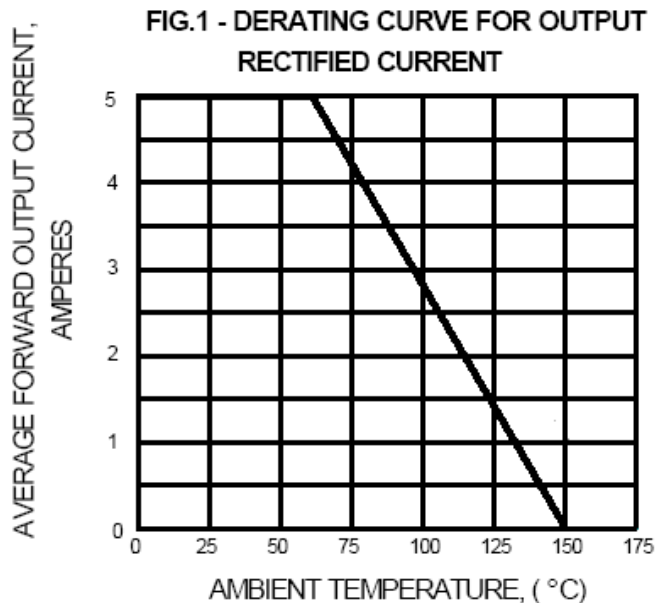


FIG.3 - TYPICAL FORWARD CHARACTERISTICS

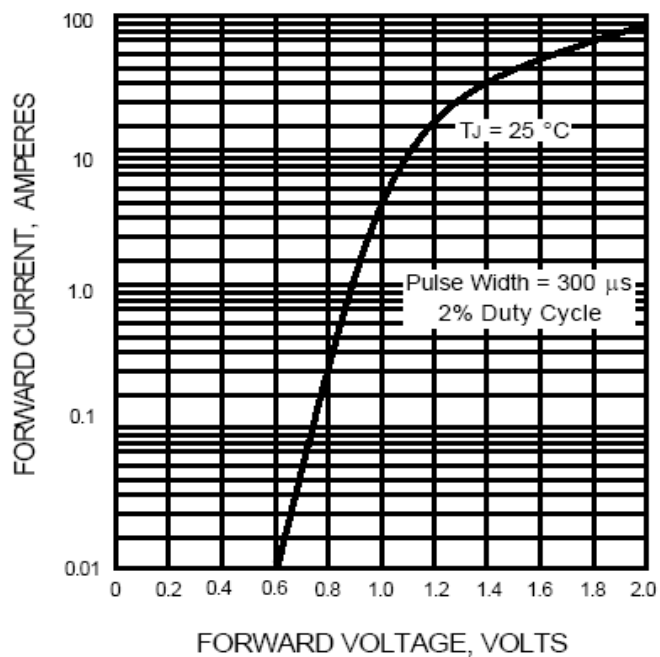


FIG. 4 - TYPICAL REVERSE CHARACTERISTICS

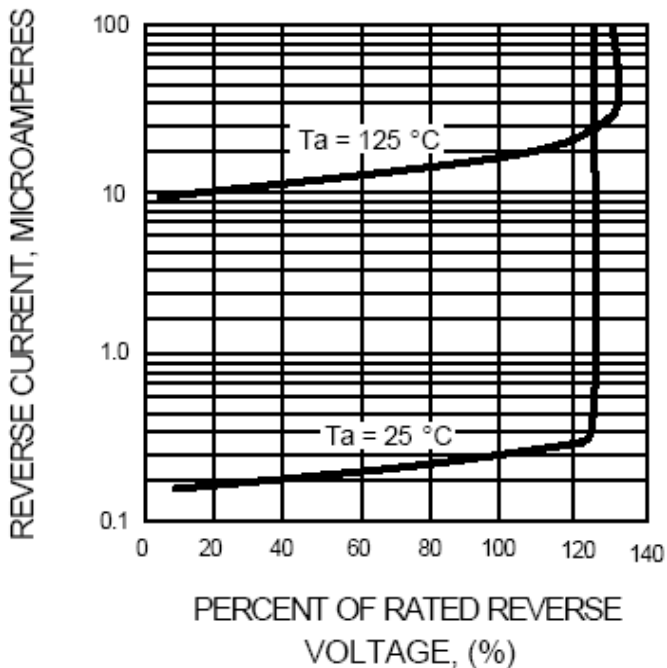


FIG. 5 - TYPICAL JUNCTION CAPACITANCE

