# BYG10Y

# SINTERED GLASS JUNCTION SURFACE MOUNTED RECTIFIER

VOLTAGE: 1600 V CURRENT: 1.5A



#### **FEATURE**

For surface mounted application
High temperature metallurgic ally bonded
Sintered glass junction
Capability of meeting environmental standard of MIL-S-19500
High temperature soldering guaranteed
450°C/10sec/at terminal / complete device
Submersible temperature of 265°C for 10sec

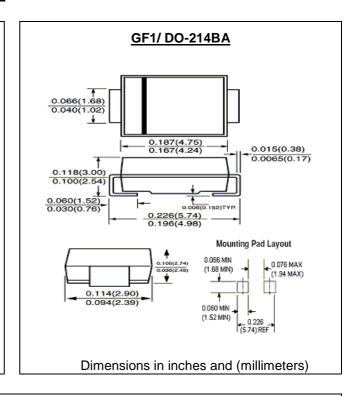
## **MECHANICAL DATA**

Terminal: Plated Terminal, solderable per

MIL-STD 202, method 208C

Case: Molded with UL-94 class V-0 recognized

Flame Retardant Epoxy over Glass Polarity: color band denotes cathode end



## MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

(single—phase, half —wave, 60HZ, resistive or inductive load rating at  $25\,^{\circ}$ C, unless otherwise stated, for capacitive load, derate current by  $20\,\%$ )

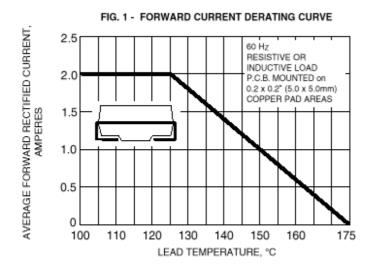
	SYMBOL	BYG10Y	units
Maximum Recurrent Peak Reverse Voltage	Vrrm	1600	V
Maximum RMS Voltage	Vrms	1120	V
Maximum DC blocking Voltage	Vdc	1600	V
Maximum Average Forward Rectified Current	If(av)	1.5	А
Peak Forward Surge Current 8.3ms single half sine-wave superimposed on rated load	Ifsm	50.0	А
Maximum Forward Voltage at rated Forward current Ta =25°C	Vf	1.15	V
Maximum full load reverse current full cycle average at 75°C ambient	Ir(av)	30.0	μΑ
	lr	5.0 50.0	μΑ
Typical Junction Capacitance (Note 1)	Cj	15.0	pF
Typical Thermal Resistance (Note 2)	Rth(ja)	80.0	℃W
Operating and Storage Temperature Range	Tstg, Tj	-65 to +175	$^{\circ}$

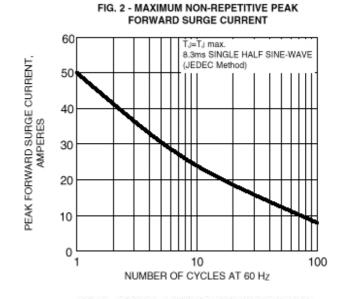
#### Note:

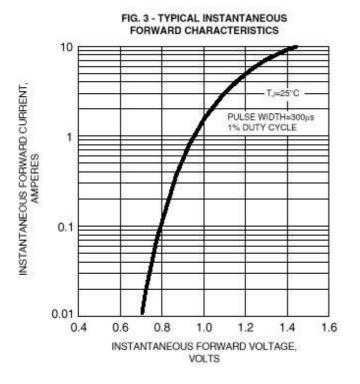
- 1. Measured at 1.0 MHz and applied reverse voltage of 4.0Vdc
- 2. Thermal Resistance from Junction to Ambient 6.0mm<sup>2</sup> copper pad to each terminal

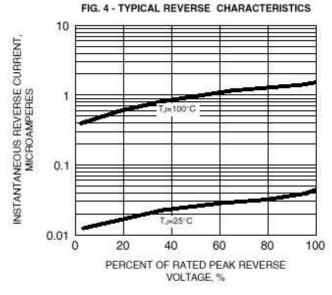
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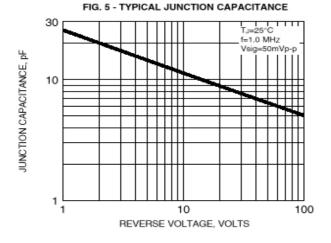
#### RATINGS AND CHARACTERISTIC CURVES BYG10Y

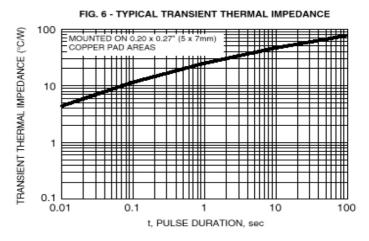












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