

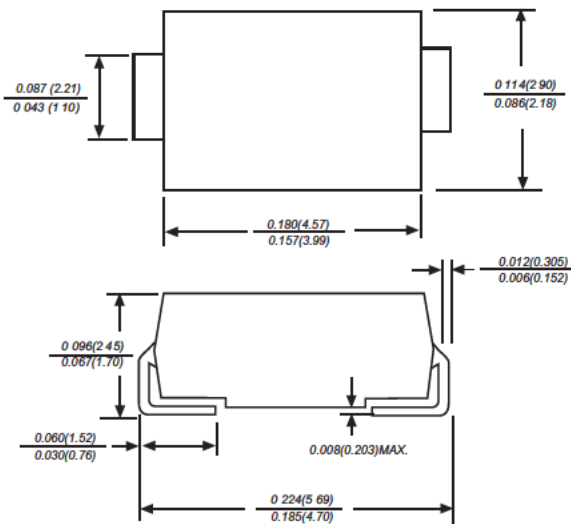
I. General Purpose Rectifier

BYG10D THRU BYG10Y

SURFACE MOUNT GENERAL RECTIFIER

Reverse Voltage - 50 to 1600 Volts Forward Current - 1.5 Ampere

DO-214AC



Dimensions in inches and (millimeters)

FEATURES

- ◆ The plastic package carries Underwriters Laboratory Flammability Classification 94V-0
- ◆ For surface mounted applications
- ◆ Low reverse leakage
- ◆ Built-in strain relief, ideal for automated placement
- ◆ High forward surge current capability
- ◆ High temperature soldering guaranteed: 260°C/10 seconds at terminals

MECHANICAL DATA

Case: JEDEC DO-214AC molded plastic body
Terminals: Solder plated, solderable per MIL-STD-750, Method 2026
Polarity: Color band denotes cathode end
Mounting Position: Any
Weight: 0.003 ounce, 0.093 grams

MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Ratings at 25°C ambient temperature unless otherwise specified.

Single phase half-wave 60Hz, resistive or inductive load, for capacitive load current derate by 20%.

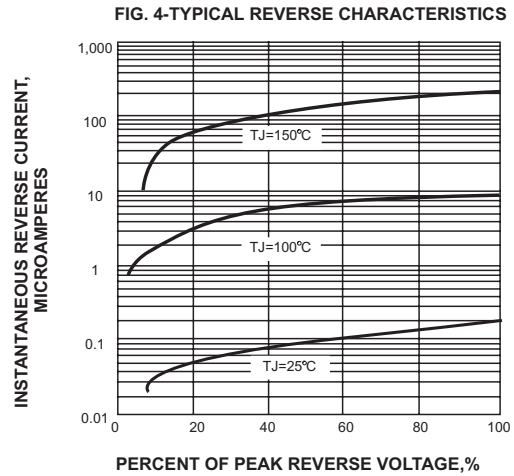
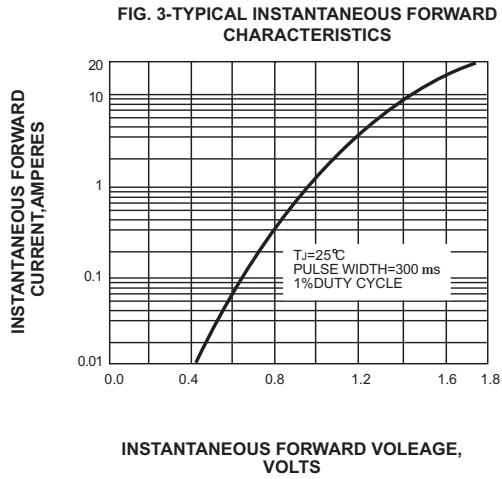
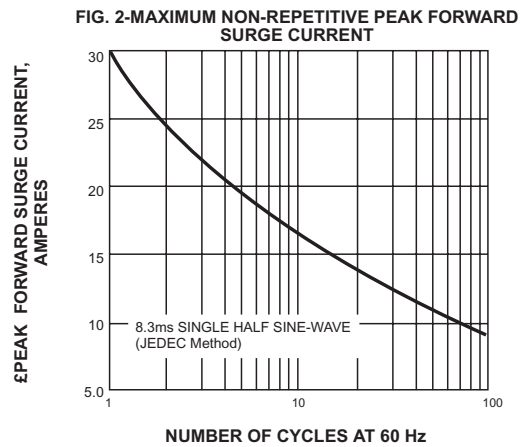
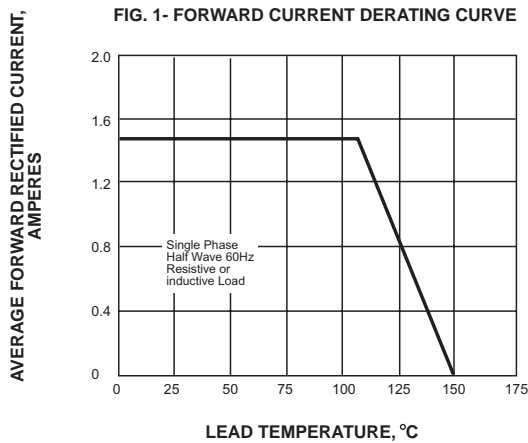
	SYMBOLS	BYG 10D	BYG 10G	BYG 10J	BYG 10K	BYG 10M	BYG 10Y	UNITS
Maximum repetitive peak reverse voltage	V_{RRM}	200	400	600	800	1000	1600	VOLTS
Maximum RMS voltage	V_{RMS}	140	280	480	640	700	1120	VOLTS
Maximum DC blocking voltage	V_{DC}	200	400	600	800	1000	1600	VOLTS
Maximum average forward rectified current at $T_L=110^\circ\text{C}$	$I_{(AV)}$	1.5						Amp
Peak forward surge current 8.3ms single half sine-wave superimposed on rated load (JEDEC Method)	I_{FSM}	30.0						Amps
Maximum instantaneous forward voltage at 1.0A	V_F	1.1						Volts
Maximum DC reverse current $T_A=25^\circ\text{C}$ at rated DC blocking voltage $T_A=100^\circ\text{C}$	I_R	5.0 50.0						μA
Typical junction capacitance (NOTE 1)	C_J	15.0						pF
Typical thermal resistance (NOTE 2)	R_{QJA}	125.0						$^\circ\text{C/W}$
Operating junction and storage temperature range	T_J, T_{STG}	-55 to +150						$^\circ\text{C}$

Note: 1. Measured at 1MHz and applied reverse voltage of 4.0V D.C.

2. Thermal resistance junction to ambient, P.C.B. mounted with (7.0x7.0mm) copper pad areas

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RATINGS AND CHARACTERISTIC CURVES



<http://patron-components.com/>