



BHT18G

Glass Passivated Electronic Lamp Ballasts Rectifier
Reverse Voltage 1100 Volts Forward Current 1.0 Ampere

Features

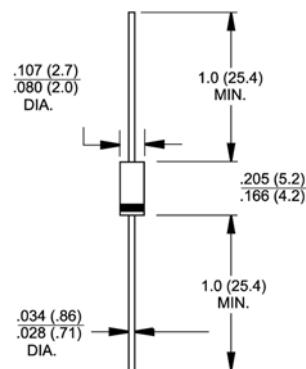
- ◆ Plastic package has Underwriters Laboratories Flammability Classification 94V-0
- ◆ High temperature metallurgically bonded construction
- ◆ Cavity-free glass passivated junction
- ◆ Capable of meeting environmental standards of MIL-S-19500
- ◆ 1.0 Ampere operation at $T_A=75^{\circ}\text{C}$ with no thermal runaway
- ◆ Typical I_R less than 0.1 μA
- ◆ High temperature soldering guaranteed:
350 $^{\circ}\text{C}$ /10 seconds, 0.375" (9.5mm) lead length,
5 lbs. (2.3kg) tension



DO-204AL (DO-41)

Mechanical Data

- ◆ Case: JEDEC DO-204AL (DO-41), molded plastic over glass body
- ◆ Terminals: Plated axial leads, solderable per MIL-STD-750, Method 2026
- ◆ Polarity: Color band denotes cathode end
- ◆ Mounting Position: Any
- ◆ Weight: 0.012 ounce, 0.335 gram



Dimensions in inches and (millimeters)

Maximum Ratings and Electrical Characteristics

Ratings at 25 $^{\circ}\text{C}$ ambient temperature unless otherwise specified.

Parameter	Symbols	BHT18G	Units
Maximum repetitive peak reverse voltage	V_{RRM}	1100	Volts
Maximum RMS voltage	V_{RMS}	770	Volts
Maximum DC blocking voltage	V_{DC}	1100	Volts
Maximum average forward rectified current 0.375" (9.5mm) lead length at $T_A=75^{\circ}\text{C}$	$I_{F(AV)}$	1.0	Amp
Peak forward surge current 8.3ms single half sine-wave superimposed on rated load (JEDEC Method)	I_{FSM}	30.0	Amps
Maximum full load reverse current, full cycle average 0.375" (9.5mm) lead length $T_A=75^{\circ}\text{C}$	$I_{R(AV)}$	30	μA
Maximum instantaneous forward voltage at 1.0A	V_F	1.0	Volts
Maximum DC reverse current @ $T_A=25^{\circ}\text{C}$ at rated DC blocking voltage @ $T_A=125^{\circ}\text{C}$	I_R	1.0 30	μA
Typical reverse recovery time at $I_F=0.5\text{A}$, $I_R=1.0\text{A}$, $t_r=0.25\text{A}$	t_r	1.0	μs
Typical junction capacitance at 4.0V, 1MHz	C_J	8.0	pF
Typical thermal resistance (Note 1)	$R_{\theta JA}$ $R_{\theta JL}$	55.0 25.0	$^{\circ}\text{C/W}$
Operating junction and storage temperature range	T_J , T_{STG}	-55 to +175	$^{\circ}\text{C}$

Notes: 1. Thermal resistance from junction to ambient at 0.375" (9.5mm) lead length, P.C.B. mounted

RATINGS AND CHARACTERISTIC CURVES

($T_A = 25^{\circ}\text{C}$ unless otherwise noted)

