



1H1 thru 1H8

High Efficient Rectifiers
Reverse Voltage 50 to 1000 Volts Forward Current 1.0 Ampere

Features

- ◆ Low forward voltage drop
- ◆ High current capability
- ◆ High reliability
- ◆ High surge current capability
- ◆ T_J is 150°C (Max.) and T_{STG} is 175°C (Max.) with PI glue

Mechanical Data

- ◆ Case: Molded plastic R-1
- ◆ Epoxy: UL 94V-O rate flame retardant
- ◆ Lead: Axial leads, solderable per MIL-STDLead: 202, Method 208 guaranteed
- ◆ Polarity: Color band denotes cathode end
- ◆ High temperature soldering guaranteed: 250°C/10 seconds / .375", (9.5mm) lead lengths at 5 lbs., (2.3kg) tension
- ◆ Mounting position: Any
- ◆ Weight: 0.007 ounce, 0.20 gram

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, derate current by 20%

Parameter	Symbols	1H1	1H2	1H3	1H4	1H5	1H6	1H7	1H8	Units
Maximum repetitive peak reverse voltage	V_{RRM}	50	100	200	300	400	600	800	1000	Volts
Maximum RMS voltage	V_{RMS}	35	70	140	210	280	420	560	700	Volts
Maximum DC blocking voltage	V_{DC}	50	100	200	300	400	600	800	1000	Volts
Maximum average forward rectified current .375" (9.5mm) lead length @ $T_A=55^\circ\text{C}$	$I_{F(AV)}$					1.0				Amp
Peak forward surge current, 8.3ms single superimposed on rated load										

Notes: 1. Reverse Recovery Test Conditions: $I_F=0.5A$, $I_R=1.0A$, $I_{RR}=0.25A$
e-0/Dt Tw0 v e(=0.25A)TjcF5/pliv eRecoveryUp

RATINGS AND CHARACTERISTIC CURVES

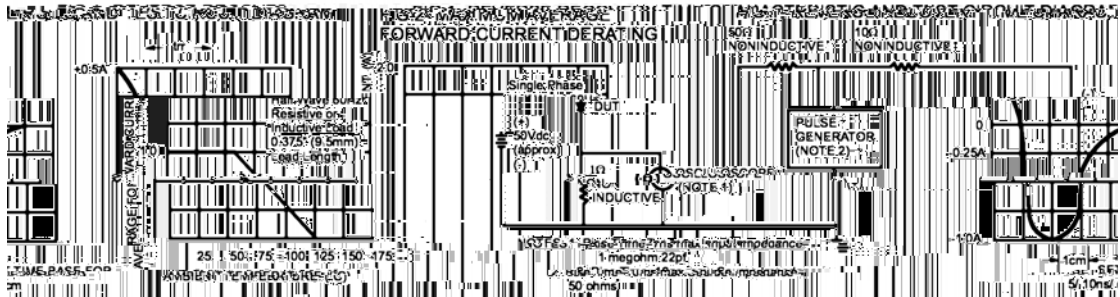


FIG. 1. TYPICAL FORWARD CHARACTERISTICS

FIG. 3. D.C. BI-DIRECTIONAL REVERSE CHARACTERISTICS

FIG. 4. TYPICAL FUNCTIONAL CAPACITANCE

