



查询"HER2G"供应商

HER1G THRU HER7G

MINIATURE HIGH EFFICIENCY GLASS PASSIVATED RECTIFIER

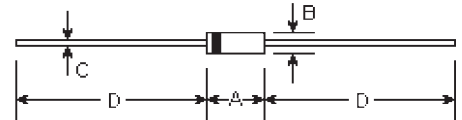
Reverse Voltage - 50 to 1000 Volts

Forward Current - 1.0 Ampere

Features

- Plastic package has Underwriters Laboratory Flammability Classification 94V-0 utilizing Flame retardant epoxy molding compound
- Glass passivated junction in A-405 package
- 1.0 ampere operation at $T_A=55^\circ\text{C}$ with no thermal runaway
- Ultra fast switching for high efficiency

A-405



Mechanical Data

- **Case:** Molded plastic, A-405
- **Terminals:** Axial leads, solderable per MIL-STD-202, method 208
- **Polarity:** Band denotes cathode
- **Mounting Position:** Any
- **Weight:** 0.008 ounce, 0.235 gram

DIM	DIMENSIONS				Note
	inches		mm		
	Min.	Max.	Min.	Max.	
A	0.165	0.205	4.2	5.2	
B	0.079	0.106	2.0	2.7	φ
C	0.020	0.024	0.5	0.6	φ
D	1.000	-	25.40	-	

Maximum Ratings and Electrical Characteristics

Ratings at 25°C ambient temperature unless otherwise specified.

Single phase, half wave, 60Hz, resistive or inductive load.

	Symbols	HER 1G	HER 2G	HER 3G	HER 4G	HER 5G	HER 6G	HER 7G	Units
Peak reverse voltage, Repetitive;	V_{RM}	50	100	200	400	600	800	1000	Volts
Maximum RMS voltage	V_{RMS}	35	70	140	280	420	560	700	Volts
DC reverse voltage	V_{DC}	50	100	200	400	600	800	1000	Volts
Average forward current, I_{AV} @ $T_A=55^\circ\text{C}$ 3/8" lead length, 60Hz, resistive or inductive load	$I_{(AV)}$	1.0							Amp
Peak forward surge current, I_{FSM} (surge) 8.3mS single half sine-wave superimposed on rated load (MIL-STD-750D 4066 method)	I_{FSM}	30.0							Amps
Maximum forward voltage @1.0A, 25°C	V_F	1.00		1.30		1.70			Volts
Maximum reverse current, @ Rated reverse voltage $T_J=25^\circ\text{C}$ $T_J=100^\circ\text{C}$	I_R					10.0 400.0			μA
Reverse recovery time (Note 1)	T_{rr}	50				75			nS
Typical junction capacitance (Note 2)	C_J	17.0							pF
Typical thermal resistance (Note 3)	$R_{\theta JA}$	60.0							$^\circ\text{C}/\text{W}$
Operating and storage temperature range	T_J, T_{STG}	-55 to +150							$^\circ\text{C}$

Notes:

- (1) Reverse recovery test conditions: $I_F=0.5\text{A}$, $I_R=1.0\text{A}$, $I_T=0.25\text{A}$
- (2) Measured at 1.0MHz and applied reverse voltage of 4.0 VDC
- (3) Thermal resistance from junction to ambient and from junction to lead length 0.375" (9.5mm) P.C.B. mounted

RATINGS AND CHARACTERISTIC CURVES

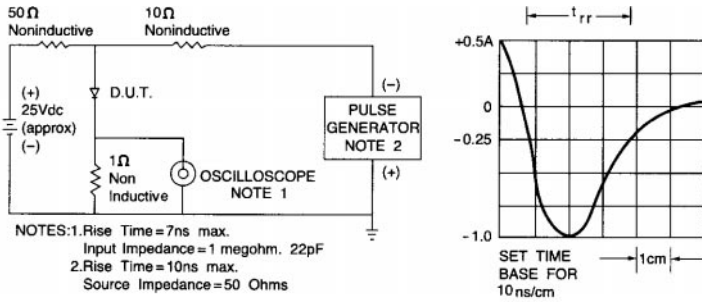


Fig. 1 - REVERSE RECOVERY TIME CHARACTERISTIC AND TEST CIRCUIT DIAGRAM

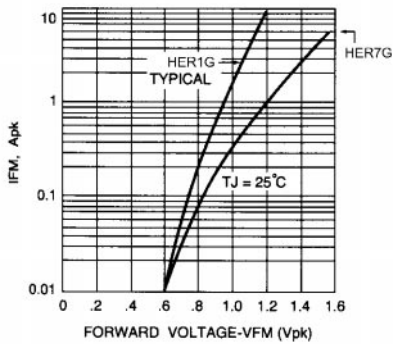


Fig. 2 - FORWARD CHARACTERISTICS

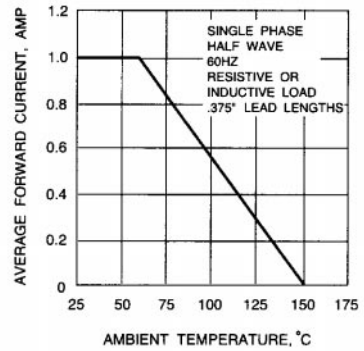


Fig. 3 - FORWARD CURRENT DERATING CURVE

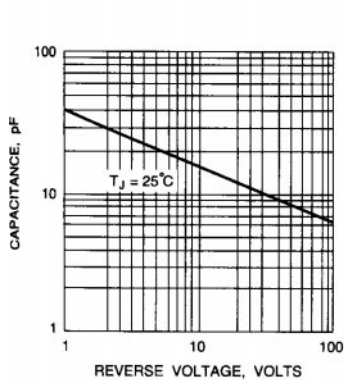


Fig. 4 - TYPICAL JUNCTION CAPACITANCE vs. REVERSE VOLTAGE

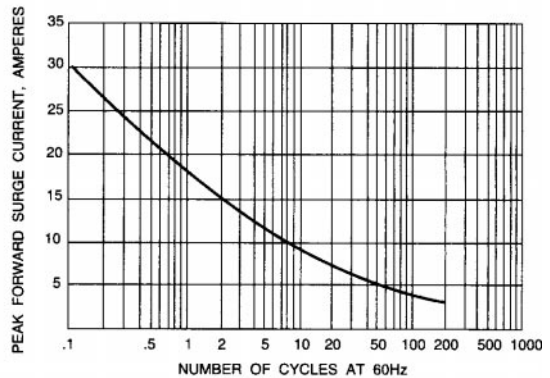


Fig. 5 - PEAK FORWARD SURGE CURRENT