



HER151G THRU HER158G

1.5 AMPS. GLASS PASSIVATED HIGH EFFICIENCY RECTIFIERS

FEATURES

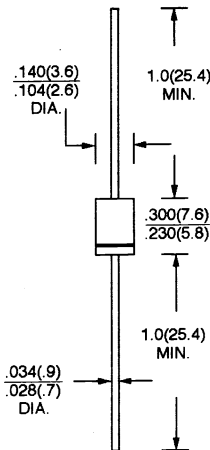
- * Low forward voltage drop
- * High current capability
- * High reliability
- * High surge current capability

MECHANICAL DATA

- * Case: Molded plastic
- * Epoxy: UL 94V-0 rate flame retardant
- * Lead: Axial leads, solderable per MIL-STD-202, method 208 guaranteed
- * Polarity: Color band denotes cathode end
- * Mounting Position: Any
- * Weight: 0.40 grams

VOLTAGE RANGE
50 to 1000 Volts
CURRENT
1.5 Amperes

DO-15



Dimensions in inches and (millimeters)

MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Rating at 25°C ambient temperature unless otherwise specified.
Single phase, half wave, 60 Hz, resistive or inductive load.
For capacitive load, derate current by 20%

TYPE NUMBER	SYMBOLS	HER 151G	HER 152G	HER 153G	HER 154G	HER 155G	HER 156G	HER 157G	HER 158G	UNITS
Maximum Recurrent Peak Reverse Voltage	V _{RRM}	50	100	200	300	400	600	800	1000	V
Maximum RMS Voltage	V _{RMS}	35	70	140	210	280	420	560	700	V
Maximum D. C Blocking Voltage	V _{DC}	50	100	200	300	400	600	800	1000	V
Maximum Average Forward Rectified Current .375" (9.5mm) lead length @ T _A = 55°C	I _{F(AV)}	1.5								A
Peak Forward Surge Current, 8.3 ms single half sine-wave superimposed on rated load(JEDEC method)	I _{FSM}	50								A
Maximum Instantaneous Forward Voltage at 1.5A	V _F	1.0				1.3	1.7			V
Maximum D. C Reverse Current @ T _A = 25°C at Rated D. C. Blocking Voltage @ T _A = 125°C	I _R	5.0 100								μA μA
Maximum Reverse Recovery Time (Note 1)	T _{RR}	50					75			nS
Typical Junction Capacitance (Note 2)	C _J	50					30			pF
Operating and Storage Temperature Range	T _J , T _{STG}	- 65 to + 150								°C

NOTES: 1. Reverse Recovery Test Conditions: $I_F = 0.5\text{A}$, $I_R = 1.0\text{A}$, $I_{RR} = 0.25\text{A}$.
2. Measured at 1 MHz and applied reverse voltage of 4.0V D. C.

