



HIGH EFFICIENCY RECTIFIER

HER151 THRU HER158

VOLTAGE RANGE
CURRENT

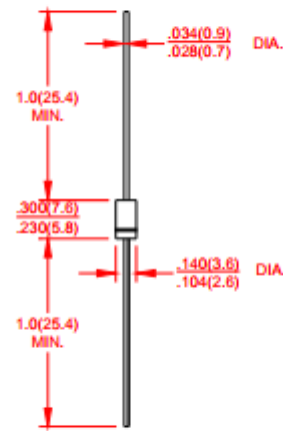
50 to 1000 Volts
1.5Ampere

FEATURES

- Low coat construction
- Fast switching for high efficiency.
- Low reverse leakage
- High forward surge current capability
- High temperature soldering guaranteed:
260°C/10 secods/.375”(9.5mm)lead length at 5 lbs(2.3kg) tension

MECHANICAL DATA

- Case: Transfer molded plastic
- Epoxy: UL94V-O rate flame retardant
- Polarity: Color band denotes cathode end
- Lead: Plated axial lead, solderable per MIL-STD-202E method 208C
- Mounting position: Any
- Weight: 0.014ounce, 0.39 grams



DO-15

Dimensions in inches and (millimeters)

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%

	SYMBOLS	HER 151	HER 152	HER 153	HER 154	HER 155	HER 156	HER 157	HER 158	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	800	Volts
Maximum DC Blocking Voltage	V_{DC}	50	100	200	300	400	600	800	1000	Volts
Maximum Average Forward Rectified Current 0.375”(9.5mm) lead length at $T_A=50^{\circ}C$	$I_{(AV)}$	1.0								Amp
Peak Forward Surge Current 8.3mS single half sine wave superimposed on rated load (JEDEC method)	I_{FSM}	50								Amps
Maximum Instantaneous Forward Voltage @ 1.5A	V_F	1.0		1.3		1.5	1.7			Volts
Maximum DC Reverse Current at Rated DC Blocking Voltage	I_R	$T_A = 25^{\circ}C$								μA
		5.0								
Maximum Full Load Recovery Current,full cycle average 0.375”(9.5mm)lead length at $T_L=55^{\circ}C$	$I_{R(AV)}$	$T_A = 125^{\circ}C$								μA
		250								
Maximum Reverse Recovery Time Test conditions $I_F=0.5A, I_R=0.10A, I_{RR}=0.25A$	t_{rr}	50					75			ns
Typical Thermal Resistance (NOTE 2)	C_J	30					20			PF
Typical Thermal Resistance(NOTE 1)	$R_{\theta JA}$	40								$^{\circ}C/W$
Operating Junction Temperature Range	T_J	(-55 to +150)								$^{\circ}C$
Storage Temperature Rrange	T_{STG}	(-55 to +150)								$^{\circ}C$

Notes:

1. Thermal resistance from junction to ambient with .375”(9.5mm)lead length, PCB. mounted.
2. Measured at 1 MHz and applied reverse of 4.0 volts.



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RATING AND CHARACTERISTIC CURVES HER151 THRU HER158

