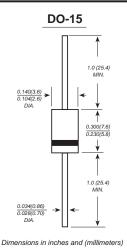


# **HER151 THRU HER158**

### HIGH EFFICIENCY RECTIFIERS

Reverse Voltage - 50 to 1000 Volts Forward Current - 1.5 Amperes



#### **FEATURES**

- The plastic package carries Underwriters Laboratory Flammability Classification 94V-0
- High speed switching for high efficiency
- Low reverse leakage
- High forward surge current capability
- High temperature soldering guaranteed: 250°C/10 seconds,0.375"(9.5mm) lead length, 5 lbs. (2.3kg) tension

#### **MECHANICAL DATA**

Case: JEDEC DO-15 molded plastic body

Terminals: Plated axial leads, solderable per MIL-STD-750,

Method 2026

Polarity: Color band denotes cathode end

**Mounting Position**: Any

Weight: 0.014 ounce, 0.40 grams

#### 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 current derate by 20%.

| SYMPOLS | HER | HE

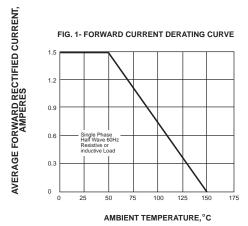
MDD Catalog Number	SYMBOLS	HER 151	HER 152	HER 153	HER 154	HER 155	HER 156	HER 157	HER 158	UNITS
Maximum repetitive peak reverse voltage	Vrrm	50	100	200	300	400	600	800	1000	VOLTS
Maximum RMS voltage	VRMS	35	70	140	210	280	420	560	700	VOLTS
Maximum DC blocking voltage	VDC	50	100	200	300	400	600	800	1000	VOLTS
Maximum average forward rectified current 0.375"(9.5mm) lead length at Ta=50°C	l(AV)	1.5							Amps	
Peak forward surge current 8.3ms single half sine-wave superimposed on rated load (JEDEC Method)	lfsm	50.0							Amps	
Maximum instantaneous forward voltage at 1.5A	VF	1.0			1.	.3	1.70			Volts
Maximum DC reverse current Ta=25℃ at rated DC blocking voltage Ta=100℃	lR	5.0 100.0						μΑ		
Maximum reverse recovery time (NOTE 1)	trr		50		70		ns			
Typical junction capacitance (NOTE 2)	Cı		30.0			20.0		pF		
Typical thermal resistance (NOTE 3)	Reja	50.0							°C/W	
Operating junction and storage temperature range	Тл,Тѕтс	-65 to +150							°C	

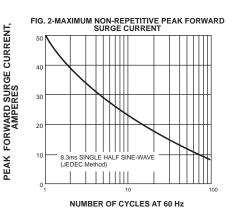
Note: 1. Reverse recovery condition IF=0.5A, IR=1.0A, Irr=0.25A

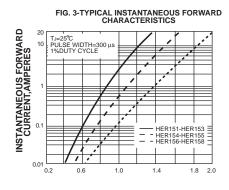
- 2.Measured at 1MHz and applied reverse voltage of 4.0V D.C.
- 3.Thermal resistance from junction to ambient at 0.375" (9.5mm) lead length, P.C.B. mounted

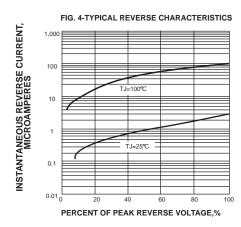
# MDD ELECTRONIC

### **RATINGS AND CHARACTERISTIC CURVES HER151 THRU HER158**

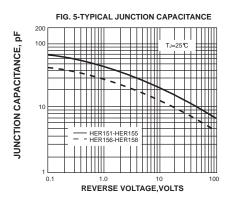


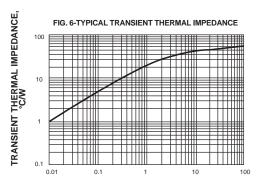












t,PULSE DURATION,sec.

# MDD ELECTRONIC