

HER151 THRU HER158

HIGH EFFICIENCY RECTIFIERS

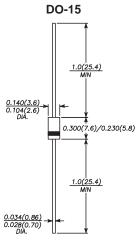
Reverse Voltage - 50 to 1000 Volts Forward Current - 1.5 Amperes

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: 260°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



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 current derate 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	Vrrm	50	100	200	300	400	600	800	1000	V
Maximum RMS voltage	Vrms	35	70	140	210	280	420	560	700	V
Maximum DC blocking voltage	VDC	50	100	200	300	400	600	800	1000	V
Maximum average forward rectified current	l(AV) 1.5								А	
0.375"(9.5mm) lead length at Ta=50℃	I(AV)		1.5							^
Peak forward surge current										
8.3ms single half sine-wave superimposed on	IFSM	Ігям 50.0							A	
rated load (JEDEC Method)										
Maximum instantaneous forward voltage at 1.5A	Vf	1.0		1.3			1.70		V	
Maximum DC reverse current TA=25°C		5.0							μA	
at rated DC blocking voltage Ta=100℃	lr	100.0							μη	
Maximum reverse recovery time (NOTE 1)	trr	50			75		ns			
Typical junction capacitance (NOTE 2)	Сл	30.0			20.0		pF			
Typical thermal resistance (NOTE 3)	Reja	50.0						°C/W		
Operating junction and storage temperature range	Т _Ј ,Тѕтс	-55 to +150							°C	

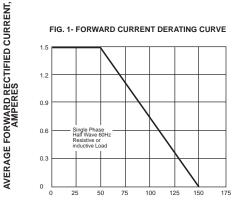
Note:1.Reverse recovery condition IF=0.5A,IR=1.0A,Irr=0.25A

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

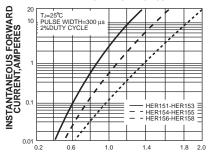


RATINGS AND CHARACTERISTIC CURVES HER151 THRU HER158



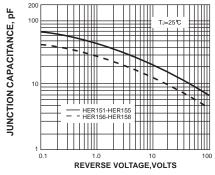
AMBIENT TEMPERATURE, °C





INSTANTANEOUS FORWARD VOLTAGE, VOLTS





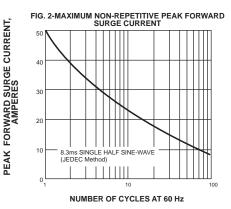
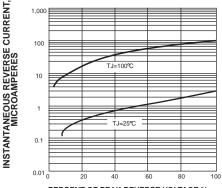
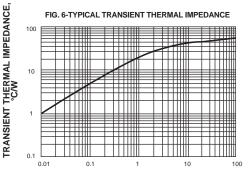


FIG. 4-TYPICAL REVERSE CHARACTERISTICS



PERCENT OF PEAK REVERSE VOLTAGE,%



t,PULSE DURATION,sec.