

HER151G THRU HER158G

GLASS PASSIVATED 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 Glass passivated junction

MECHANICAL DATA

Case: JEDEC DO-15 molded plastic body

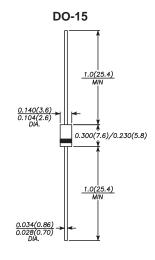
Terminals: Plated axial leads, solderable per MIL-STD-750,

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 151G	HER 152G	HER 153G	HER 154G	HER 155G	HER 156G	HER 157G	HER 158G	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	long	I(AV) 1.5								А
0.375"(9.5mm) lead length at Ta=50°C	I(AV)									
Peak forward surge current										
8.3ms single half sine-wave superimposed on	IFSM	IFSM 50.0							Α	
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℃		5.0 100.0								Λ
at rated DC blocking voltage Ta=100℃	l _R								μΑ	
Maximum reverse recovery time (NOTE 1)	trr	50			75			ns		
Typical junction capacitance (NOTE 2)	Cı	30.0			20.0		pF			
Typical thermal resistance (NOTE 3)	RθJA	50.0						°C/W		
Operating junction and storage temperature range	ТЈ,Тѕтс	-55 to +150							°C	

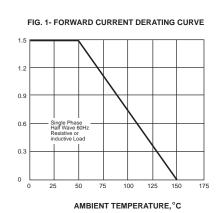
Note: 1. Reverse recovery condition IF=0.5A, IR=1.0A, Irr=0.25A

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

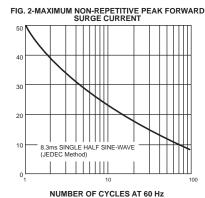


RATINGS AND CHARACTERISTIC CURVES HER151G THRU HER158G

AVERAGE FORWARD RECTIFIED CURRENT, AMPERES







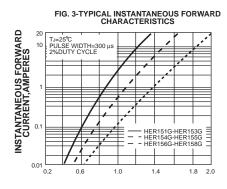
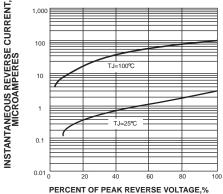
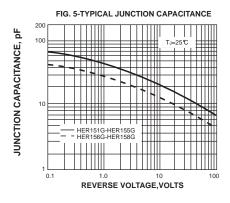
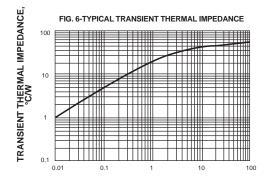


FIG. 4-TYPICAL REVERSE CHARACTERISTICS



INSTANTANEOUS FORWARD VOLTAGE, VOLTS





t,PULSE DURATION,sec.