

HER101SG THRU HER108SG

GLASS PASSIVATED HIGH EFFICIENCY RECTIFIERS

Reverse Voltage - 50 to 1000 Volts Forward Current - 1.0 Ampere

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 A-405 molded plastic body

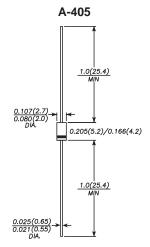
Terminals: Plated axial leads, solderable per MIL-STD-750,

Method 2026

Polarity: Color band denotes cathode end

Mounting Position: Any

Weight: 0.008 ounce, 0.23 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 101SG	HER 102SG	HER 103SG	HER 104SG	HER 105SG	HER 106SG	HER 107SG	HER 108SG	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) 1.0							-	А	
0.375"(9.5mm) lead length at Ta=50°C	I(AV)	1.0								
Peak forward surge current										
8.3ms single half sine-wave superimposed on	IFSM 30.0								Α	
rated load (JEDEC Method)										
Maximum instantaneous forward voltage at 1.0A	VF	1.0		1.3		1.70			V	
Maximum DC reverse current Ta=25°C		5.0 100.0								μА
at rated DC blocking voltage Ta=100℃	l R									
Maximum reverse recovery time (NOTE 1)	trr	50				75			ns	
Typical junction capacitance (NOTE 2)	Сл	15.0				12.0		pF		
Typical thermal resistance (NOTE 3)	RθJA	50.0							°C/W	
Operating junction and storage temperature range	ТЈ,Тѕтс	-55 to +150							°C	

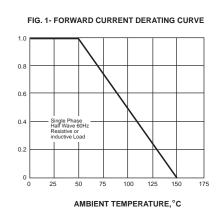
Note: 1. Reverse recovery condition IF=0.5A, IR=1.0A, Irr=0.25A

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

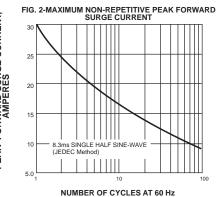


RATINGS AND CHARACTERISTIC CURVES HER101SG THRU HER108SG

AVERAGE FORWARD RECTIFIED CURRENT, AMPERES









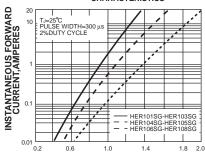
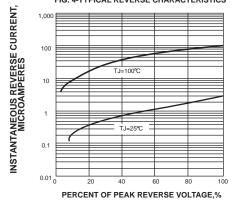
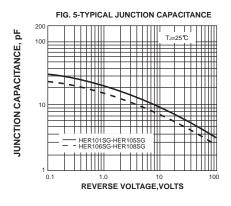
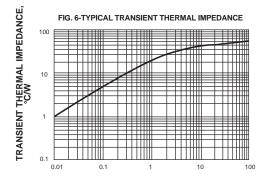


FIG. 4-TYPICAL REVERSE CHARACTERISTICS



INSTANTANEOUS FORWARD VOLTAGE, VOLTS





t,PULSE DURATION,sec.