HIGH EFFICIENCY RECTIFIERS

DO-15

REVERSE VOLTAGE 50 to 1000 Volts

FORWARD CURRENT 2.0 Ampere

1.0(25.4)

MIN.

MIN.

.299(7.6) 228(5.8)

HER208

HER201 TH

FEATURES

High speed switching Low forward voltage drop Low leakage current High forward surge capability High reliability High temperature soldering guaranteed 260°C/10 seconds,0.375" (9.5mm)lead length at 5 lbs(2.3kg) tension

MECHANICAL DATA

Case: Transfer molded plastic Epoxy: UL94V-0 rate flame retardant Polarity: Color band denotes cathode end Lead: Plated axial lead, solderable per MIL-STD-202E method 208C Mounting position: Any

MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Ratings at 25°C ambient temperature unless otherwise specified . Dimensions in inches and (millimeters) Single phase, half wave, 60Hz, resistive or inductive load.

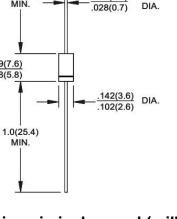
For capacitive load derate current by 20%										
PARAMETER	SYMBOL	HER 201	HER 202	HER 203	HER 204	HER 205	HER 206	HER 207	HER 208	UNIT
Maximum Repetitive Peak Reverse Voltage	Vrrm	50	100	200	300	400	600	800	1000	VOLTS
Maximum RMS Voltage	Vrms	35	70	140	210	280	420	560	700	VOLTS
Maximum DC Blocking Voltage	VDC	50	100	200	300	400	600	800	1000	VOLTS
Maximum average forward rectified current 0.375" (9.5mm) lead length at T _A =55 $^{\circ}$ C	I(AV)	2.0							Amp	
Peak Forward Surge Current 8.3ms single half sine-wave superimposed on rated load (JEDEC Method)	IFSM	60								Amps
Maximum instantaneous forward voltage at 2.0A	V_{F}	1.0 1.3				1.70			VOLTS	
Maximum DC Reverse Current $T_A = 25^{\circ}C$ at Rated DC blocking voltage $T_A = 100^{\circ}C$	IR	5.0 100.0							uA	
Maximum reverse recovery time (NOTE 1)	T_{RR}	50				75			ns	
Typical Junction Capacitance (Note 2)	CJ	30				20			pF	
Typical Thermal Resistance (Note 3)	Reja	50							°C/W	
Operating junction and storage temperature range	Т _Ј ,Тsтg	-65 to +150								°C
	- ^									

1- Reverse recovery condition If=0.5A, Ir=1.0A, Irr=0.25A.

2- Measured at 1 MHZ and applied reverse voltage of 4.0 VDC.

3-Thermal resistance from junction to ambient at 0.375" (9.5mm) lead length, P.C.B. mounted.

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.034(0.9)

DIA.

R

RATINGS AND CHARACTERISTIC CURVES

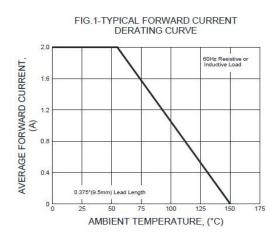


FIG.2-MAXIMUM NON-REPETITIVE PEAK FORWARD SURGE CURRENT

HER201

HER208

FIG.3-TYPICAL INSTANTANEOUS

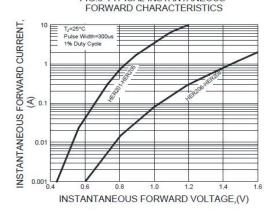
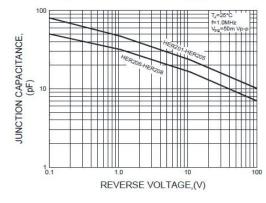
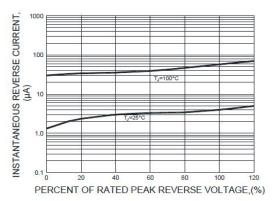


FIG.5-TYPICAL JUNCTION CAPACITANCE

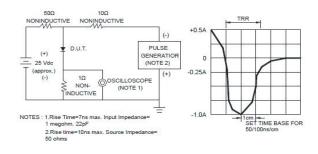


Note: Specifications are subject to change without notice.

FIG.3-TYPICAL REVERSE CHARACTERISTICS



F1G.6-TEST CIRCUIT DIAGRAM AND FORWARD SURGE CURRENT



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