HER201 THRU HER208

HIGH EFFICIENT PLASTIC SILICON RECTIFIER

VOLTAGE:50 TO 1000V CURRENT: 2.0A

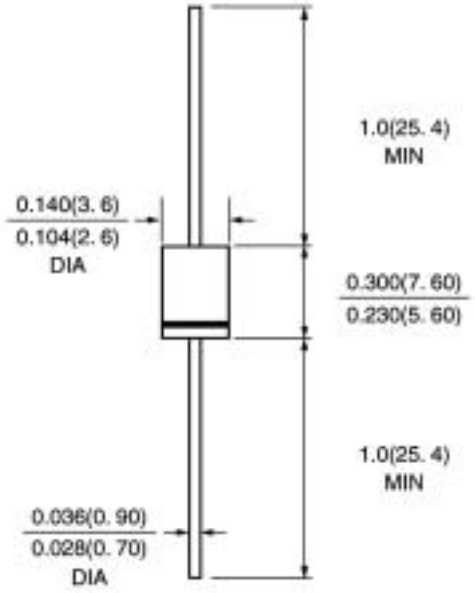
FEATURE

Low power loss
High surge capability
Ultrafast recovery time for high efficiency
High temperature soldering guaranteed
250°C/10sec/0.375"lead length at 5 lbs tension

MECHANICAL DATA

Terminal:Plated axial leads solderable per MIL-STD 202E, method 208C
Case:Molded with UL-94 Class V-0 recognized Flame Retardant Epoxy
Polarity:color band denotes cathode
Mounting position:any

DO-15



Dimensions in inches and (millimeters)

MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

(single-phase, half -wave, 60HZ, resistive or inductive load rating at 25°C, unless otherwise stated)

	SYMBOL	HER 201	HER 202	HER 203	HER 204	HER 205	HER 206	HER 207	HER 208	units
Maximum Recurrent 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 3/8'lead length at Ta =55°C	If(av)	2.0								A
Peak Forward Surge Current 8.3ms single half sine-wave superimposed on rated load	Ifsm	60.0								A
Maximum Forward Voltage at Forward current 2.0A Peak	Vf	1.0				1.3	1.7			V
Maximum DC Reverse Current T =25°C at rated DC blocking voltage Ta =100°C	Ir	10.0 100.0								μA μA
Maximum Reverse Recovery Time (Note 1)	Trr	50				75				nS
Typical Junction Capacitance (Note 2)	Cj	60				40				pF
Typical Thermal Resistance (Note 3)	R(ja)	20.0								°C/W
Storage and Operating Junction Temperature	Tstg,Tj	-50 to +125								°C

Note:

1. Reverse Recovery Condition If =0.5A, Ir =1.0A, Irr =0.25A
2. Measured at 1.0 MHz and applied reverse voltage of 4.0Vdc
3. Thermal Resistance from Junction to Ambient at 3/8"lead length, P.C. Board Mounted

RATINGS AND CHARACTERISTIC CURVES HER201 THRU HER208

[1]

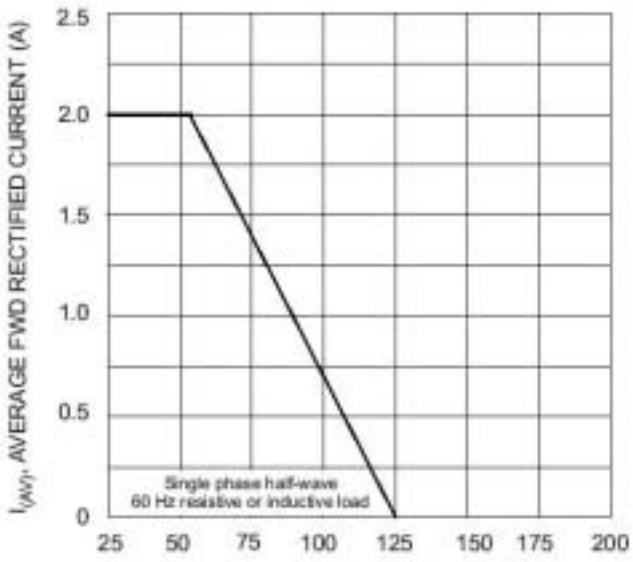


Fig. 1 Forward Current Derating Curve

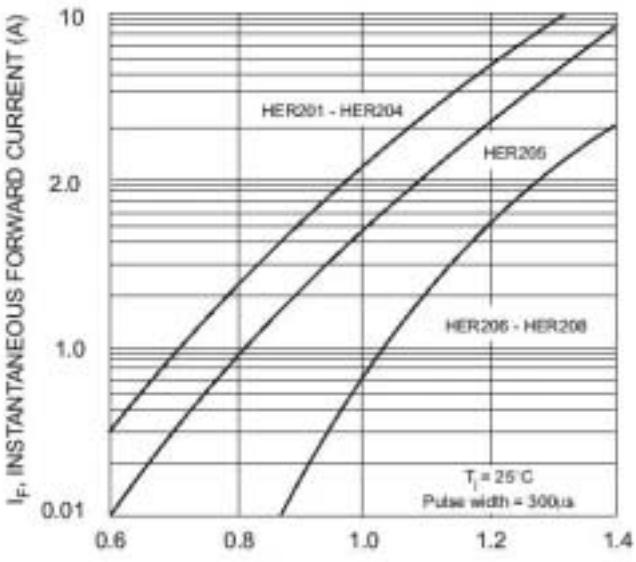


Fig. 2 Typical Forward Characteristics

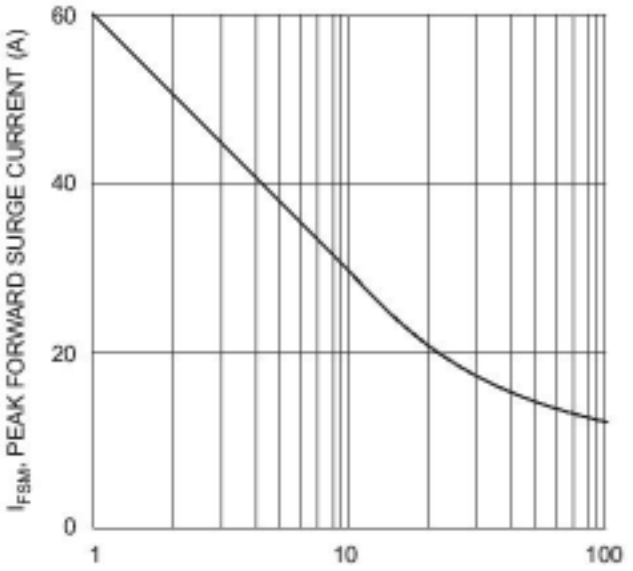


Fig. 3 Peak Forward Surge Current

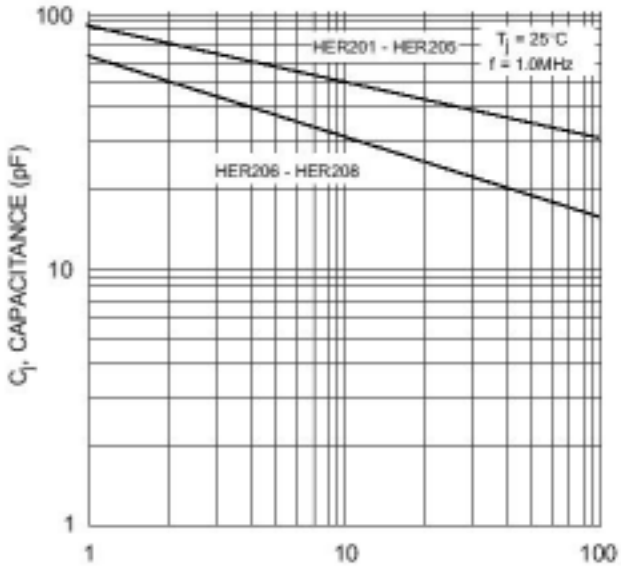


Fig. 4 Typical Junction Capacitance