

# HER201 THRU HER208

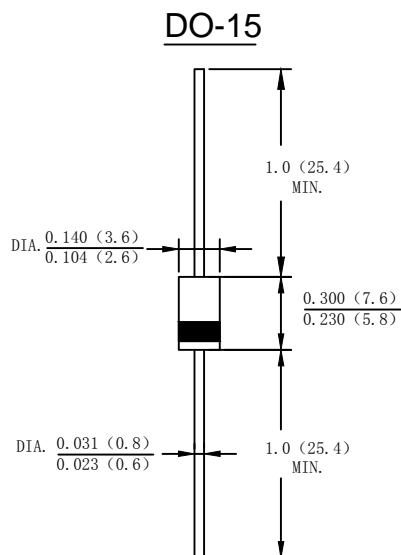
## 2.0 AMP. High Plastic silicon Efficient Rectifiers

### Features

- Low forward voltage drop
- High current capability
- High reliability

### Mechanical Data

- Case: Molded plastic DO-15
- Terminals: Plated leads solderable per MIL-STD-202, Method 208 guaranteed
- Polarity: Color band dented cathode end
- Mounting Position: Any



Dimensions in inches and (millimeters)

### Maximum Ratings and Electrical Characteristics

Rating at 25°C ambient temperature unless otherwise specified

Single phase, half wave, 60Hz, resistive or inductive load

For capacitive load derate current by 20%

Type Number	SYMBOL	HER 201	HER 202	HER 203	HER 204	HER 205	HER 206	HER 207	HER 208	Unit	
Maximum Recurrent Peak Reverse Voltage	$V_{RM}$	50	100	200	300	400	600	800	1000	V	
Maximum RMS Voltage	$V_{RMS}$	35	70	140	210	280	420	560	700	V	
Maximum DC Blocking Voltage	$V_{DC}$	50	100	200	300	400	600	800	1000	V	
Average Rectified Output Current (Note 1) @ $T_L=100^\circ C$	$I_{F(AV)}$	2.0								A	
Peak Forward Surge Current 8.3ms Single half sine-wave superimposed on rated load (JEDEC Method)	$I_{FSM}$	60								A	
$I^2t$ Rating for Fusing ( $t < 8.3ms$ )	$I^2t$	14.94								A <sup>2</sup> s	
Forward Voltage @ $I_F=2.0A$	$V_{FM}$	1.0		1.3			1.7			V	
Peak Reverse Current @ $T_A=25^\circ C$	$I_R$	5.0								uA	
At Rated DC Blocking Voltage @ $T_A=125^\circ C$		100									
Maximum Reverse Recovery Time (Note 2)	$T_{RR}$	50					75				nS
Typical Junction Capacitance (Note 3)	$C_j$	60					40				pF
Typical Thermal Resistance Junction to Ambient	$R_{\theta JA}$	25								°C/W	
Operating Temperature Range	$T_j$	-65 to + 125								°C	
Storage Temperature Range	$T_{STG}$	-65 to + 150								°C	

Note: 1. Leads maintained at ambient temperature at a distance of 9.5mm from the case

2. Reverse Recovery Test Conditions:  $I_F=0.5A$ ,  $I_R=1.0A$ ,  $IRR=0.25A$

3. Measured at 1.0 MHz and Applied reverse Voltage of 4.0V D.C

FIG. 1 - FORWARD CURRENT DERATING CURVE

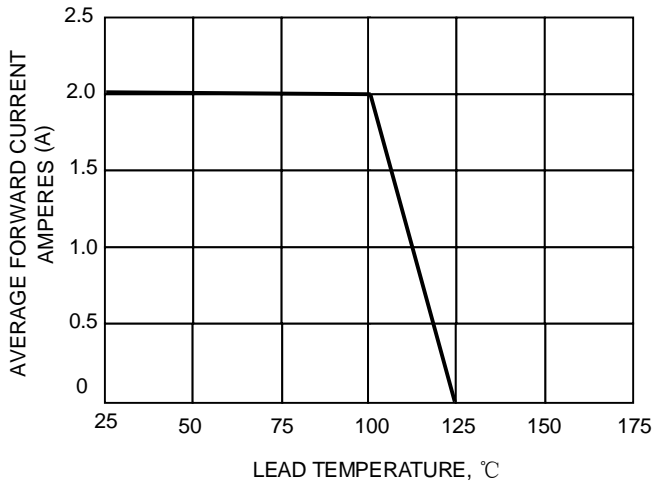


FIG. 2 - TYPICAL FORWARD CHARACTERISTICS

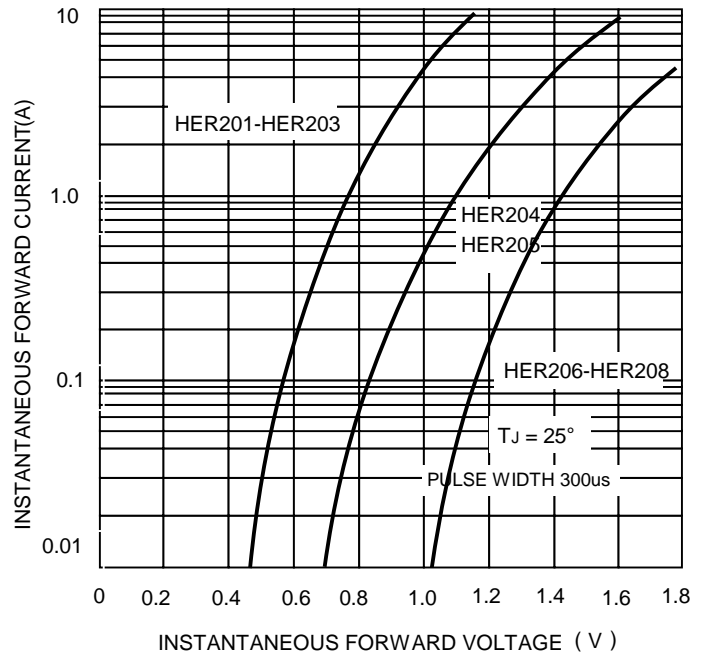


FIG. 3 - MAXIMUM NON-REPETITIVE SURGE CURRENT

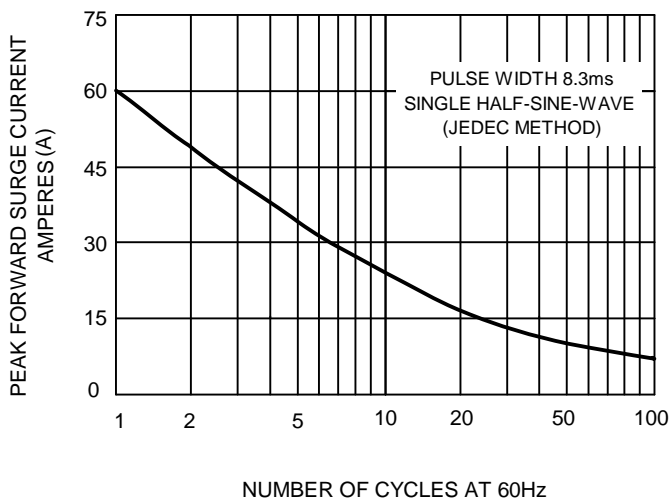
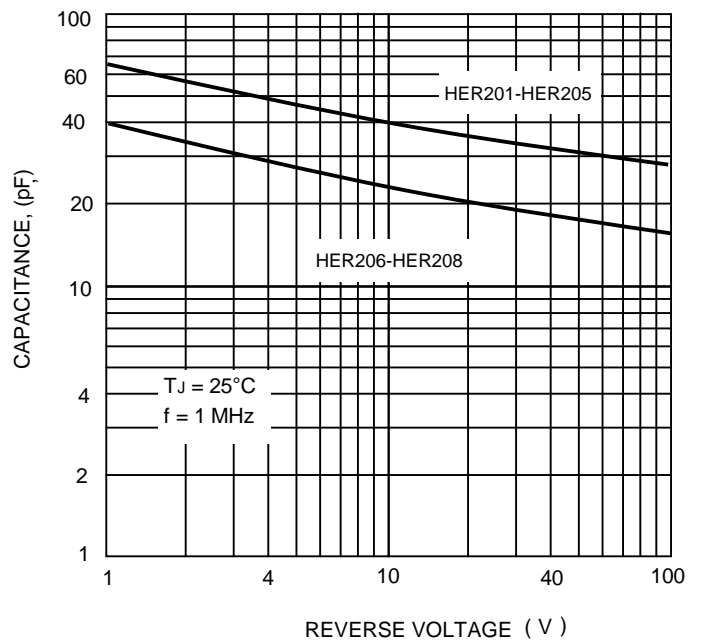


FIG. 4 - TYPICAL JUNCTION CAPACITANCE



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