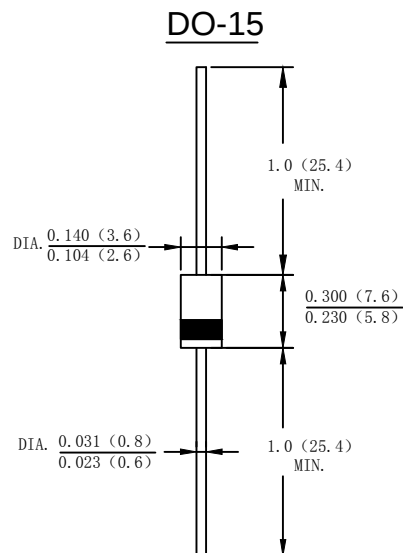


Features

- Low power loss.
- High current capability
- High reliability
- High surge current capability
- Plastic material-UL flammability 94V-0

Mechanical Data

- Case: Moeded plastic DO-15
- Terminals: Plated leads solderable per MIL-STD-202,Method 208 guaranteed
- Polarity: Color band dentes cathode end
- Mounting Position: Any
- Making: Type Number
- Lead Free: For Rohs/Lead Free Version



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 201GU	HER 202GU	HER 203GU	HER 204GU	HER 205GU	HER 206GU	HER 207GU	HER 208GU	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 _A =55°C	I _O	2.0								A
Peak Forward Surge Current 8.3ms Single half sine-wave superimposed on rated load (JEDEC Method)	I _{FSM}	60								A
Forward Voltage @IF=2.0A	V _{FM}	1.0			1.3		1.7			V
Peak Reverse Current @T _A =25°C	I _R	5.0								uA
At Rated DC Blocking Voltage @T _A =100°C		100								
Maximum Reverse Recovery Time (Note2)	T _{RR}	50					75			nS
Typical Junction Capacitance (Note 3)	C _j	60					40			pF
Typical Thermal Resistance Junction to Ambient	R _{θJA}	25								K/W
Operating Temperature Range	T _j	-55 to + 150								°C
Storage Temperature Range	T _{STG}	-55 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

HER201GU THRU HER208GU

FIG. 1 - FORWARD CURRENT DERATING CURVE

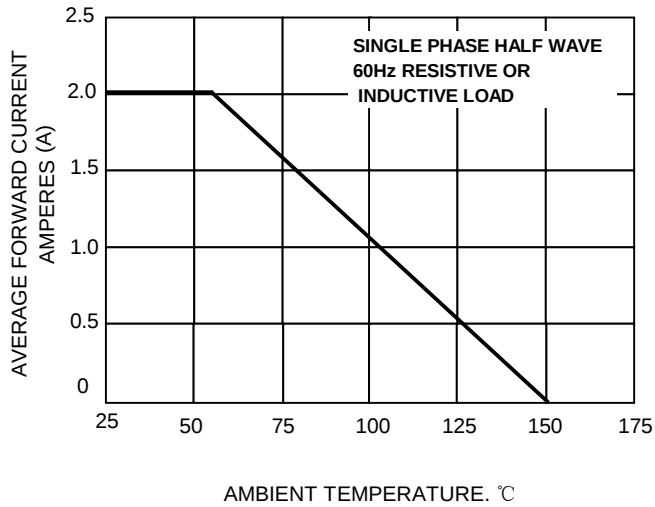


FIG.2 – TYPICAL FORWARD CHARACTERISTICS

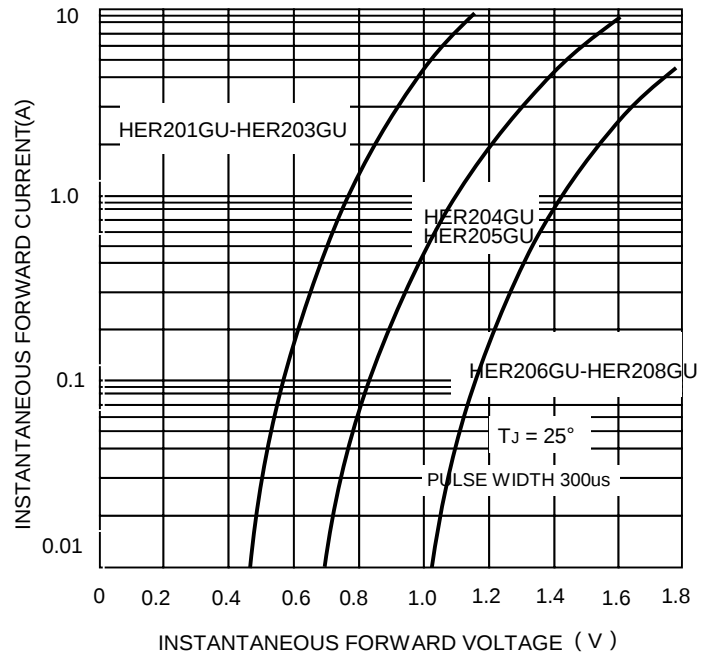


FIG. 3 – MAXIMUM NON-REPETITIVE SURGE CURRENT

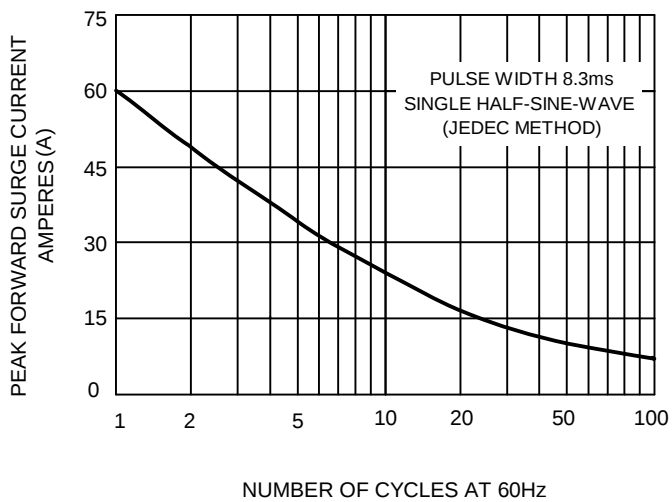


FIG. 4 – TYPICAL JUNCTION CAPACITANCE

