HER20X / UF200X SERIES

Reverse Voltage - 50 to 1000 Volts Forward Current - 2.0 Ampere

High Efficiency (Ultra Fast) Rectifiers

Features

- Low cost
- Ultra fast switching for high efficiency
- Low reverse leakage current
- Low forward voltage drop
- High current capability
- The plastic material carries UL recognition 94V-0

Mechanical Data

- Case: JEDEC DO-15 Molded plastic
- Polarity: Color band denotes cathode

Mounting position: Any

Note: Products with logo or by

are made by HY Electronic (Cayman) Limited.

Applications

• For use in SMPS, high frequency inverters, PWM and polarity protection applications

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%.

DO-15
.034 (0.9) 1.0 (25.4) Min.
.300 (7.6) .230 (5.8)
1.0 (25.4) Min. Package Outline Dimensions in Inches (Millimeters)

Characteristics	Symbol		HER202	HER203	HER204	HER205	HER206	HER207	HER208	Unit
Characteristics	Symbol	UF2001	UF2002	UF2003	UF2004	UF2005	UF2006	UF2007	UF2008	
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 @Ta=50 ℃	I(AV)		2.0							
eak Forward Surge Current, 8.3mS Single Half Sine-Wave,	IFSM	60								Α
Superimposed on Rated Load (JEDEC Method)	IF5M									
Peak Forward Voltage at 2.0 A DC	VF	1.0 1.3		1.7		V				
Maximum DC Reverse Current at Rated @TJ=25°C	lr	5.0								
DC Blocking Voltage @Tյ=100℃	IK	100								μA
Maximum Reverse Recovery Time (Note 1)	Trr		50				75			nS
Typical Junction Capacitance (Note2)	Cı	50 30					pF			
Typical Thermal Resistance Junction to Ambient	Røja	25						°C/W		
Operating Junction Temperature Range	TJ	-55 to +150 -55 to +150						$^{\circ}$		
Storage Temperature Range	Тѕтс							$^{\circ}$		
Notes: 1 Measured with IE-0.50 IB-10 IBB-0.250	s: 1 Measured with IE-0.54 Ip-14 Ipp-0.254									

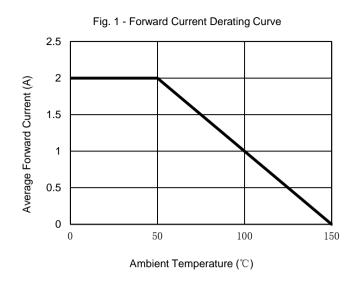
Notes: 1.Measured with IF=0.5A,IR=1A,IRR=0.25A.

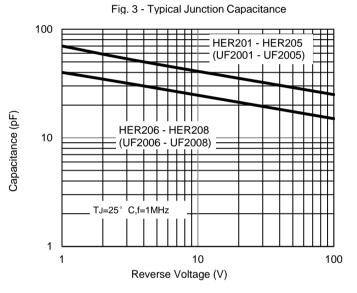
- 2.Measured at 1.0 MHz and applied reverse voltage of 4.0V DC.
- 3. The typical data above is for reference only.

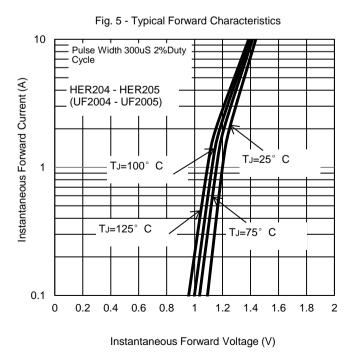
Rating and Characteristic Curves

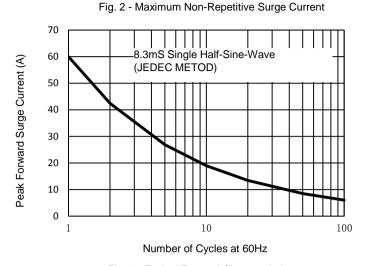
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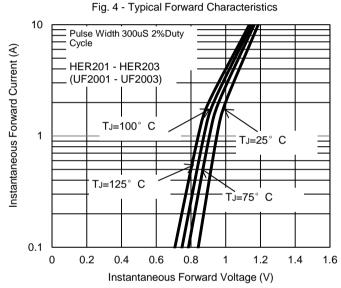


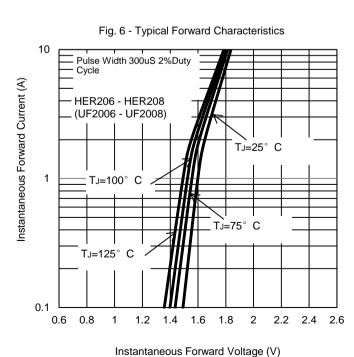












The curve above is for reference only.

HER20*/UF200*-A/B/T-00/99-00/01 Rev. 11, 18-May-2020



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