HER206G

High Efficiency Glass Passivated Rectifiers

Reverse Voltage - 600 Volts
Forward Current - 2.0 Ampere

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

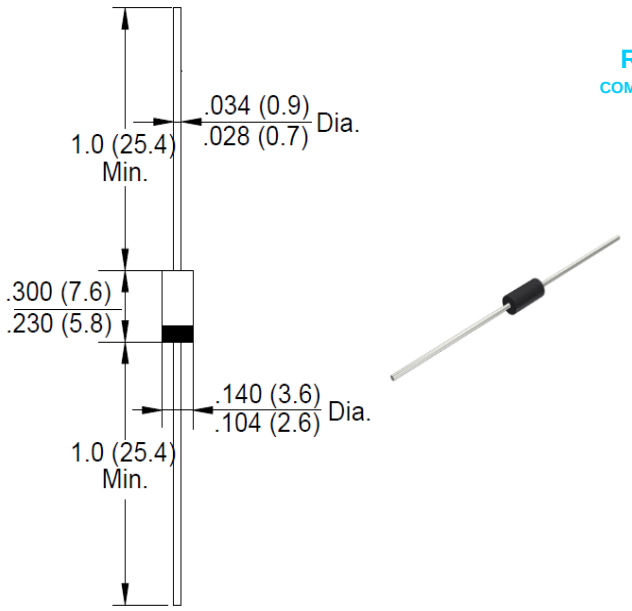
Note: Products with logo HY or hy are made by HY Electronic (Cayman) Limited.

Applications

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

DO-15

RoHS COMPLIANT



Package Outline Dimensions in Inches (Millimeters)

Maximum Ratings and Electrical Characteristics

Rating at 25℃ ambient temperature unless otherwise specified.
Single phase, half wave, 60Hz, resistive or inductive load.
For capacitive load, derate current by 20%.

Characteristics	Symbol	HER 206G	Unit
Maximum Repetitive Peak Reverse Voltage	V_{RRM}	600	V
Maximum RMS Voltage	V_{RMS}	420	V
Maximum DC Blocking Voltage	V_{DC}	600	V
Maximum Average Forward Rectified Current @T_A=50 ℃	$I_{(AV)}$	2.0	A
Peak Forward Surge Current, 8.3mS Single Half Sine-Wave, Superimposed on Rated Load (JEDEC Method)	I_{FSM}	60	A
Peak Forward Voltage at 2.0 A DC	V_F	1.7	V
Maximum DC Reverse Current at Rated @T_J=25℃ DC Blocking Voltage @T_J=100℃	I_R	5.0 100	μA
Maximum Reverse Recovery Time (Note 1)	T_{RR}	75	nS
Typical Junction Capacitance (Note2)	C_J	30	pF
Typical Thermal Resistance Junction to Ambient	$R_{\theta JA}$	25	℃/W
Operating Junction Temperature Range	T_J	-55 to +150	℃
Storage Temperature Range	T_{STG}	-55 to +150	℃

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.

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Fig. 1 - Forward Current Derating Curve

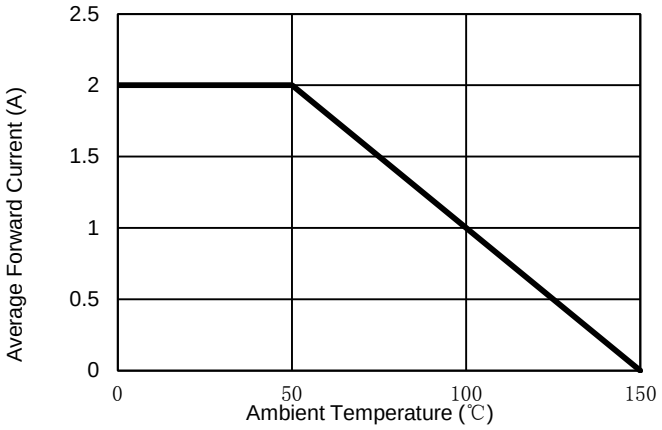


Fig. 2 - Maximum Non-Repetitive Surge Current

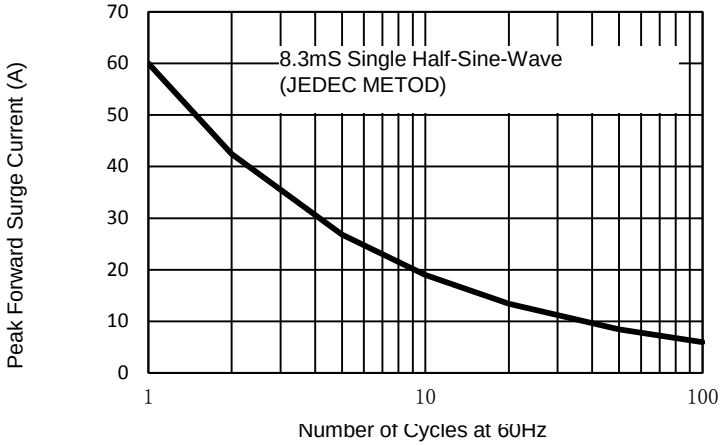


Fig. 3 - Typical Junction Capacitance

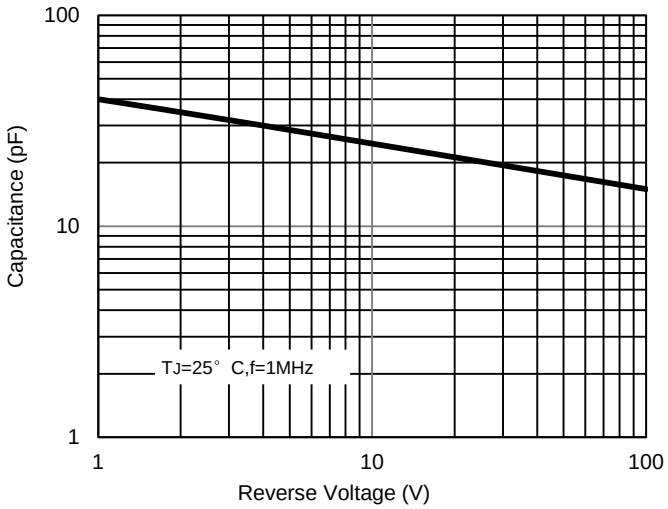
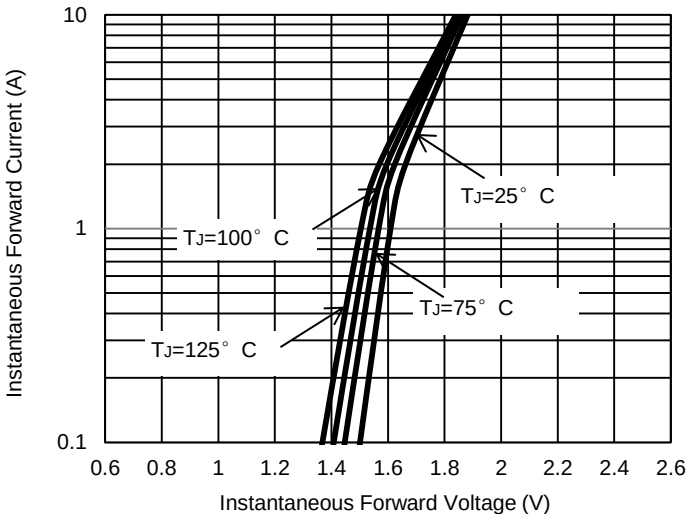


Fig. 6 - Typical Forward Characteristics



The curve above is for reference only.

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