

High Efficiency Silicon Rectifiers

Reverse Voltage - 100 to 1000 V Forward Current - 2 A

FEATURES

♦For surface mounted applications

♦Low profile package

♦Open Junction chip

♦Ideal for automated placement

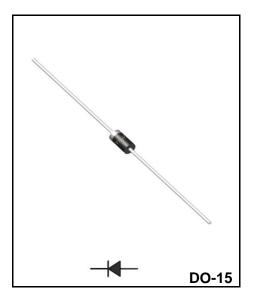
♦Lead free in comply with EU RoHS 2011/65/EU directives

MECHANICAL DATA

♦Case: DO-15

♦Terminals: Solderable per MIL-STD-750, Method 2026

♦Approx. Weight: 0.33g / 0.0116oz



Maximum Ratings and Electrical characteristics

Ratings at 25 °C ambient temperature unless otherwise specified.

Single phase half-wave 60 Hz, resistive or inductive load, for capacitive load current derate by 20 %.

Parameter	Symbols	HER 202	HER 203	HER 204	HER 205	HER 206	HER 207	HER 208	Units
Maximum Repetitive Peak Reverse Voltage	V _{RRM}	100	200	300	400	600	800	1000	v
Maximum RMS voltage	V _{RMS}	70	140	210	280	420	560	700	v
Maximum DC Blocking Voltage	V _{DC}	100	200	300	400	600	800	1000	v
Maximum Average Forward Rectified Current at T _c = 100 °C	IF _(AV)	2.0					A		
Peak Forward Surge Current 8.3 ms Single Half Sine Wave Superimposed on Rated Load	I _{FSM}	60.0					A		
Maximum Instantaneous Forward Voltage at 2.0A	V _F	0.95 1.25 1.65				v			
Maximum DC Reverse Current $T_a = 25 ^{\circ}\text{C}$ at Rated DC Blocking Voltage $T_a = 125 ^{\circ}\text{C}$	I _R	10 500					μА		
Maxinum reverse recovery time ^(Note 1)	Trr	50 75			nS				
Typical Junction Capacitance (Note 2)	Cj	50.0					pF		
Typical Thermal Resistance	R _{0JA}	75					°C/W		
Operating and Storage Temperature Range	T _j , T _{stg}	-55 ~ +150					°C		

⁽¹⁾ Measured at 1 MHz and applied reverse voltage of 4 V D.C

⁽²⁾ Reverse recovery time test condition: IF=0.5A IR=1.0A Irr=0.25A



Ratings and Characteristic Curves

FIG. 1- DERATING CURVE OUTPUT RECTIFIED CURRENT

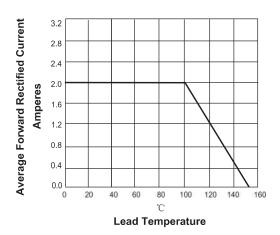


FIG. 3-TYPICAL FORWARD VOLTAGE CHARACTERISTICS

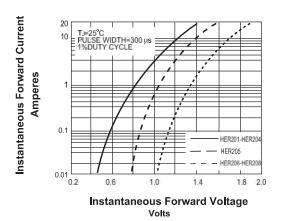


FIG. 2-MAXIMUM NON-REPETITIVE PEAK FORWARD SURGE CURRENT PERLEG

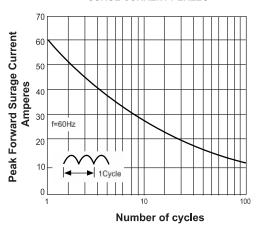
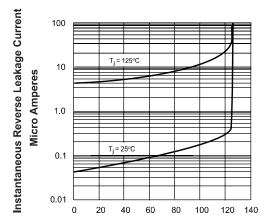


FIG. 4-TYPICAL REVERSE LEAKAGE CHARACTERISTICS



Percent Of Rated Peak Reverse Voltage(%)



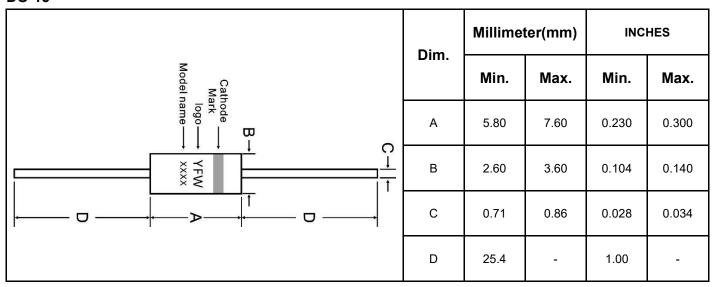
HER202 THRU HER208 DO-15

Ordering information

Package	Packing Description	Packing Quantity				
DO-15	bulk	500PCS/Inner Box 30000PCS/Carton				
	ammo pack	3000PCS/Inner Box 30000PCS/Carton				

Package Dimensions

DO-15



3/4



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