

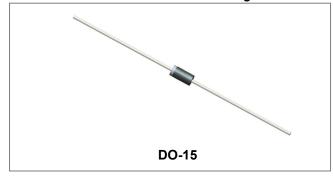




HER208G

HIGH EFFICIENCY RECTIFIERS

Reverse Voltage - 1000 Volts Forward Current - 2.0 Amperes



Features

- The plastic package carries Underwriters Laboratory Flammability Classification 94V-O
- Ultra-fast switching for high efficiency
- Low reverse leakage
- Glass Passivated Die Construction
- · High forward surge current capability
- High temperature soldering guaranteed 250°C/10 seconds,
 0.375" (9.5mm) lead length,5lbs. (2.3kg) tension
- This is a Pb Free Device
- All SMC parts are traceable to the wafer lot
- Additional testing can be offered upon request

Circuit Diagram



Mechanical Data

- Case: JEDEC DO-15 molded plastic body
- Terminals: Plated axial leads, solderable per MIL-STD-750, Method 2026
- Polarity: Color band denotes cathode end
- Mounting Position: Any
- Weight: 0.014 ounce, 0.40 grams

Maximum Ratings

Characteristics	Symbol	Condition	Max.	Units
Repetitive Peak Reverse Voltage	V_{RRM}	-	1000	V
RMS Voltage	V _{RMS}	-	700	V
DC Blocking Voltage	V _{DC}	-	1000	V
Average Forward Current	I _{F (AV)}	50% duty cycle @TA = 50°C rectangular wave form	2.0	Α
Peak One Cycle Non-Repetitive Surge Current	I _{FSM}	8.3 ms, half Sine pulse	60	Α

Electrical Characteristics

Characteristics	Symbol	Condition	Тур.	Max.	Units
Forward Voltage Drop*	V _{F1}	@ 2.0A, Pulse, T _J = 25°C	1.41	1.7	V
Reverse Current*	I _{R1}	$@V_R = \text{rated } V_R$ $T_J = 25 ^{\circ}$	3	5	μА
	I _{R2}	$@V_R = \text{rated } V_R$ $T_J = 100^{\circ}C$	-	100	μА
Junction Capacitance	CJ	$@V_R = 4V, T_C = 25 ^{\circ}C$ $f_{SIG} = 1MHz$	20	-	pF
Reverse Recovery Time	Trr	IF=0.5A,IR=1.0A,Irr=0.25A	-	75	ns

^{*} Pulse width < 300 µs, duty cycle < 2%

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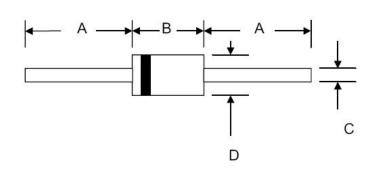




Thermal-Mechanical Specifications

Characteristics	Symbol	Condition	Specification	Units
Junction Temperature	TJ	-	-55 to +150	°C
Storage Temperature	T _{stg}	-	-55 to +150	°C
Typical Thermal Resistance Junction to Ambient	$R_{\theta JA}$	-	50	°C/W

Mechanical Dimensions DO-15



SYMBOL	Millimeters		Inches		
OTMBOL	Min.	Max.	Min.	Max.	
А	25.4	-	1.000	-	
В	5.5	7.62	0.217	0.300	
С	0.7	0.9	0.028	0.034	
D	2.6	3.6	0.104	0.140	

Ordering Information

Device	Package	Shipping	
HER208G	DO-15 (Pb-Free)	3000pcs /tape	

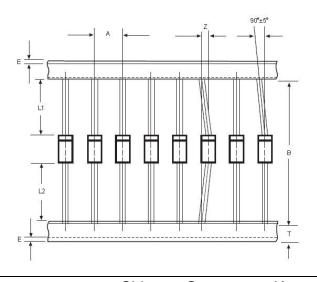
For information on tape and reel specifications, including part orientation and tape sizes, please refer to our tape and reel packaging specification.

Marking Diagram



HER208G = Part Name

Carrier Tape Specification DO-15



SYMBOL	Millimeters		
	Min.	Max.	
А	4.50	5.50	
В	50.9	53.9	
Z	-	1.20	
Т	5.60	6.40	
Е	-	0.80	
IL1-L2I	-	1.0	

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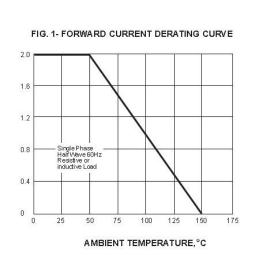




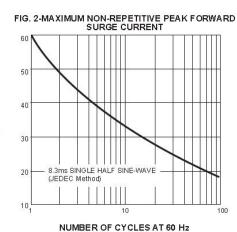


Ratings and Characteristics Curves

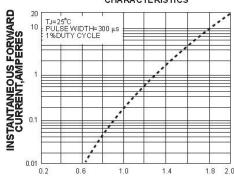


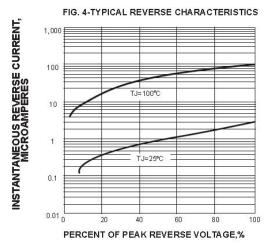




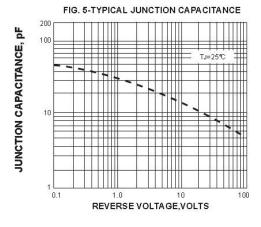


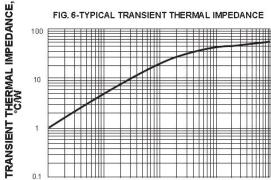


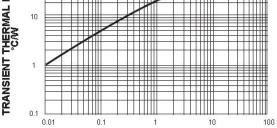




INSTANTANEOUS FORWARD VOLTAGE, VOLTS







t, PULSE DURATION, sec.

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