

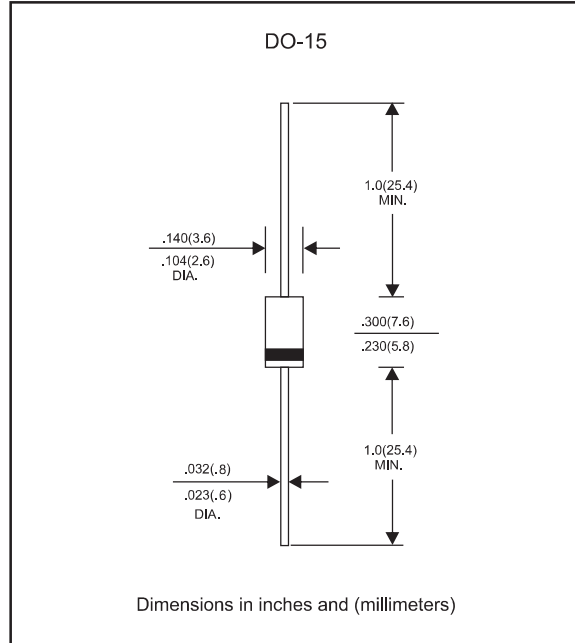
### Features

- Axial lead type devices for through hole design.
- High current capability.
- Ultrafast recovery time for high efficiency.
- High surge current capability.
- Glass passivated chip junction.
- Lead-free parts meet RoHS requirements.
- Suffix "-H" indicates Halogen free parts, ex. HER201G-H.

### Mechanical data

- Epoxy : UL94-V0 rated flame retardant
- Case : Molded plastic, DO-15
- Lead : Axial leads, solderable per MIL-STD-202, Method 208 guaranteed
- Polarity: Color band denotes cathode end
- Mounting Position : Any

### Package outline



### Maximum ratings and Electrical Characteristics (AT $T_A=25^\circ\text{C}$ unless otherwise noted)

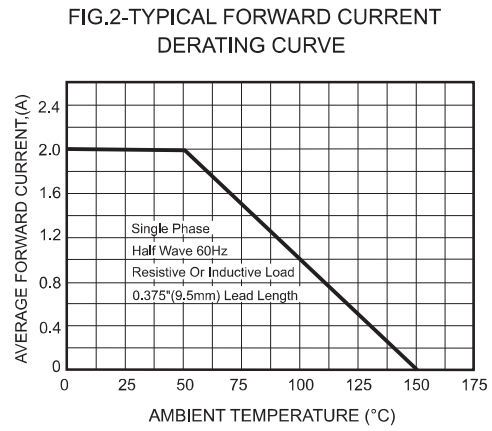
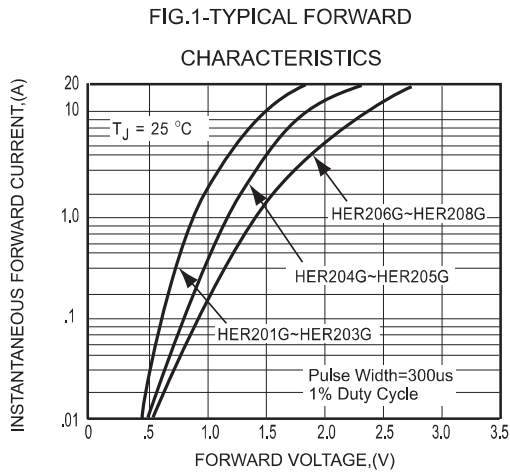
PARAMETER	CONDITIONS	Symbol	MIN.	TYP.	MAX.	UNIT
Forward rectified current	Ambient temperature = $50^\circ\text{C}$	$I_o$			2.0	A
Forward surge current	8.3ms single half sine-wave (JEDEC method)	$I_{FSM}$			60	A
Reverse current	$V_R = V_{RRM}$ $T_J = 25^\circ\text{C}$	$I_R$			5.0	$\mu\text{A}$
	$V_R = V_{RRM}$ $T_J = 125^\circ\text{C}$				150	
Diode junction capacitance	f=1MHz and applied 4V DC reverse voltage	$C_j$		30		pF
Storage temperature		$T_{STG}$	-65		+175	$^\circ\text{C}$

SYMBOLS	$V_{RRM}^{*1}$ (V)	$V_{RMS}^{*2}$ (V)	$V_R^{*3}$ (V)	$V_F^{*4}$ (V)	$t_{rr}^{*5}$ (ns)	Operating temperature $T_J$ , ( $^\circ\text{C}$ )
HER201G	50	35	50	1.00	50	
HER202G	100	70	100			
HER203G	200	140	200			
HER204G	300	210	300	1.30		
HER205G	400	280	400			
HER206G	600	420	600	1.85	75	
HER207G	800	560	800			
HER208G	1000	700	1000			

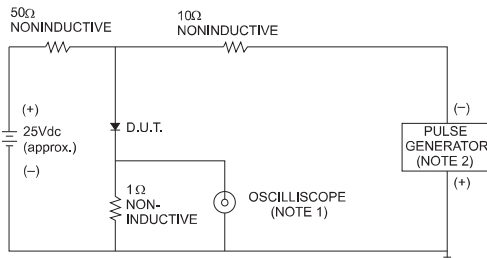
- \*1 Repetitive peak reverse voltage
- \*2 RMS voltage
- \*3 Continuous reverse voltage
- \*4 Maximum forward voltage@ $I_F=2.0\text{A}$
- \*5 Maximum Reverse recovery time, note 1

Note 1. Reverse recovery time test condition,  $I_F=0.5\text{A}$ ,  $I_R=1.0\text{A}$ ,  $I_{RR}=0.25\text{A}$

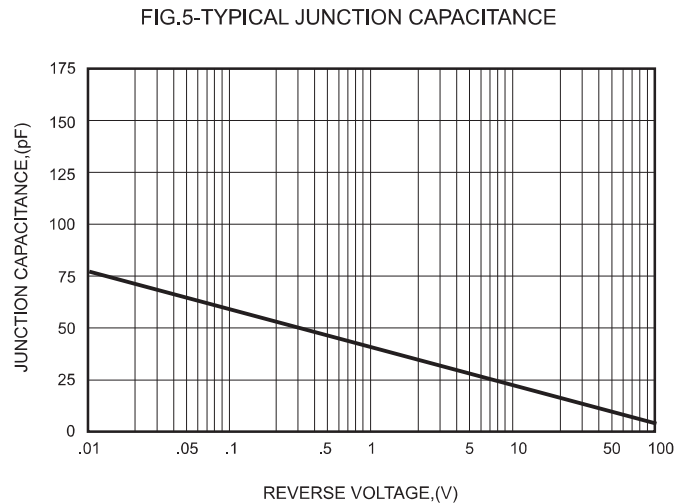
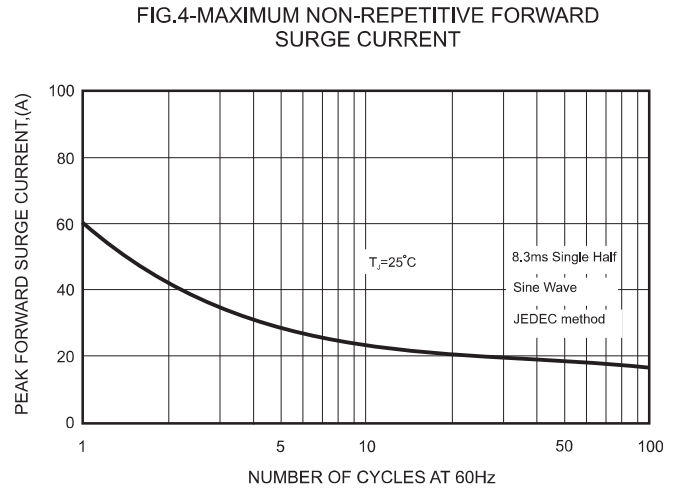
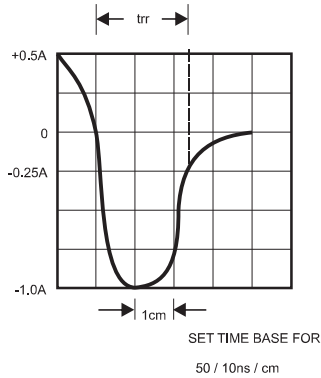
## Rating and characteristic curves (HER201G THRU HER208G)





**FIG.3- TEST CIRCUIT DIAGRAM AND REVERSE RECOVERY TIME CHARACTERISTICS**



NOTES: 1. Rise Time = 7ns max., Input Impedance = 1 megohm, 22pF.  
 2. Rise Time = 10ns max., Source Impedance = 50 ohms.



## Pinning information

Pin	Simplified outline	Symbol
Pin1 cathode Pin2 anode		

## Marking

Type number	Marking code
HER201G	HER201G
HER202G	HER202G
HER203G	HER203G
HER204G	HER204G
HER205G	HER205G
HER206G	HER206G
HER207G	HER207G
HER208G	HER208G

## Taping specifications for AXIAL devices

