

THERMAL PERFORMANCE			
PARAMETER	SYMBOL	TYP	UNIT
Junction-to-ambient thermal resistance	$R_{\theta JA}$	60	°C/W

ELECTRICAL SPECIFICATIONS ($T_A = 25^\circ\text{C}$ unless otherwise noted)								
PARAMETER		CONDITIONS	SYMBOL	TYP	MAX	UNIT		
Forward voltage ⁽¹⁾	HER201G HER202G HER203G HER204G	$I_F = 2\text{A}, T_J = 25^\circ\text{C}$	V_F	-	1.0	V		
	HER205G			-	1.3	V		
	HER206G HER207G HER208G			-	1.7	V		
	Reverse current @ rated V_R ⁽²⁾			I_R	-	5	μA	
					-	150	μA	
Junction capacitance	HER201G HER202G HER203G HER204G HER205G	1MHz, $V_R = 4.0\text{V}$	C_J	35	-	pF		
	HER206G HER207G HER208G			20	-	pF		
Reverse recovery time	HER201G HER202G HER203G HER204G HER205G	$I_F = 0.5\text{A}, I_R = 1.0\text{A},$ $I_{rr} = 0.25\text{A}$	t_{rr}	-	50	ns		
	HER206G HER207G HER208G			-	75	ns		

Notes:

1. Pulse test with PW = 0.3ms
2. Pulse test with PW = 30ms

ORDERING INFORMATION		
ORDERING CODE ⁽¹⁾⁽²⁾	PACKAGE	PACKING
HER20xG	DO-204AC (DO-15)	3,500 / Tape & Reel
HER20xG A0G	DO-204AC (DO-15)	1,500 / Ammo box
HER20xGH	DO-204AC (DO-15)	3,500 / Tape & Reel
HER20xGHA0G	DO-204AC (DO-15)	1,500 / Ammo box

Notes:

1. "x" defines voltage from 50V (HER201G) to 1000V (HER208G)
2. "H" means AEC-Q101 qualified

CHARACTERISTICS CURVES

($T_A = 25^\circ\text{C}$ unless otherwise noted)

Fig.1 Forward Current Derating Curve

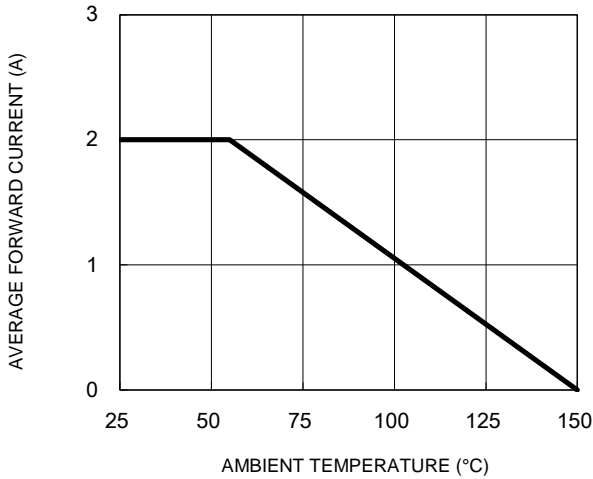


Fig.2 Typical Junction Capacitance

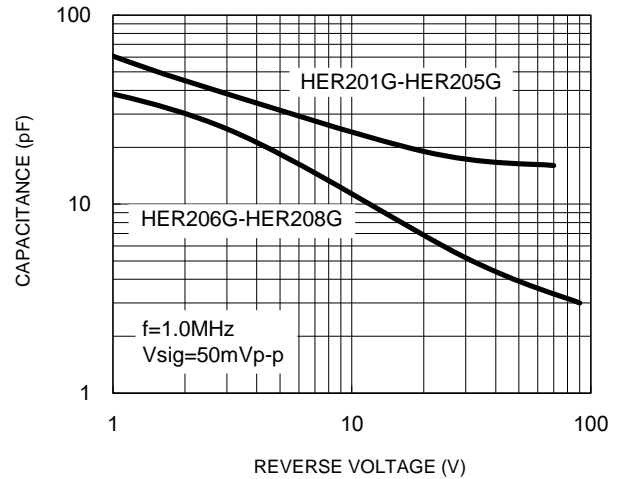


Fig.3 Typical Reverse Characteristics

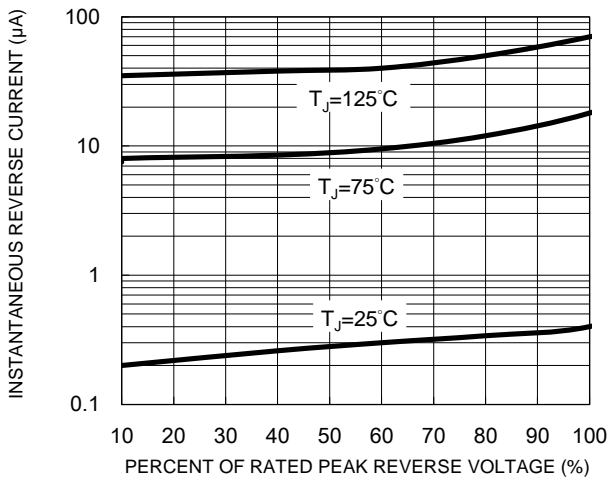


Fig.4 Typical Forward Characteristics

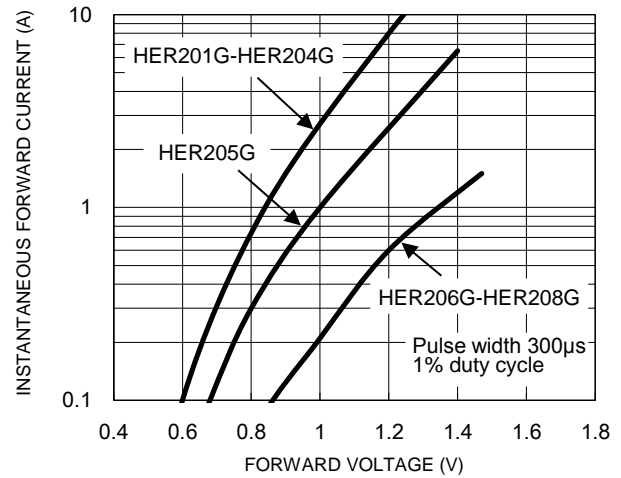
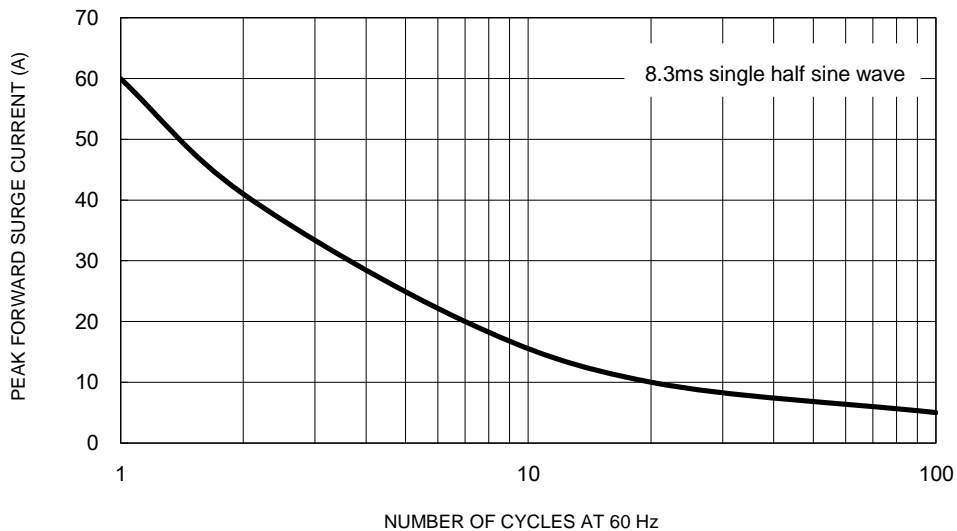


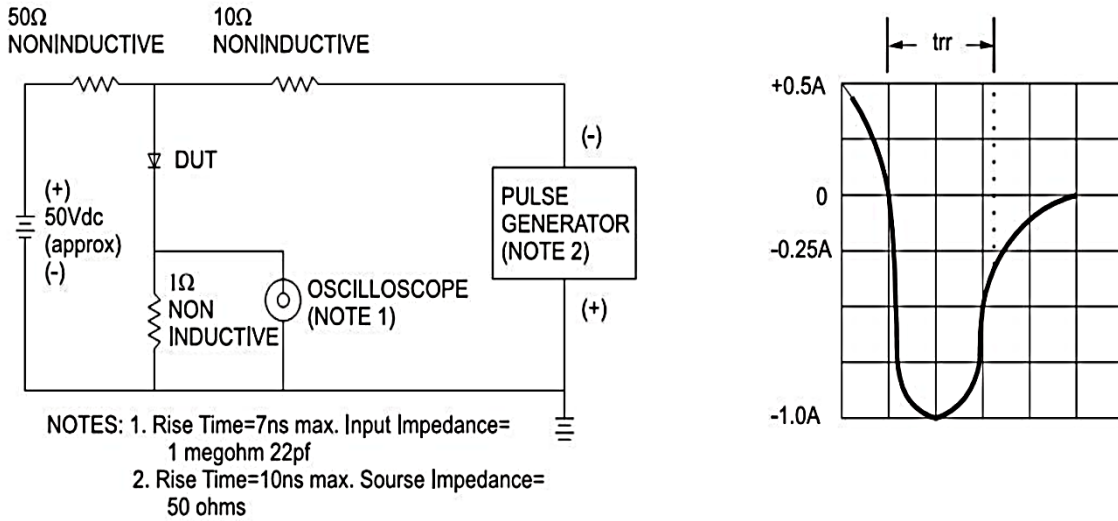
Fig.5 Maximum Non-Repetitive Forward Surge Current



CHARACTERISTICS CURVES

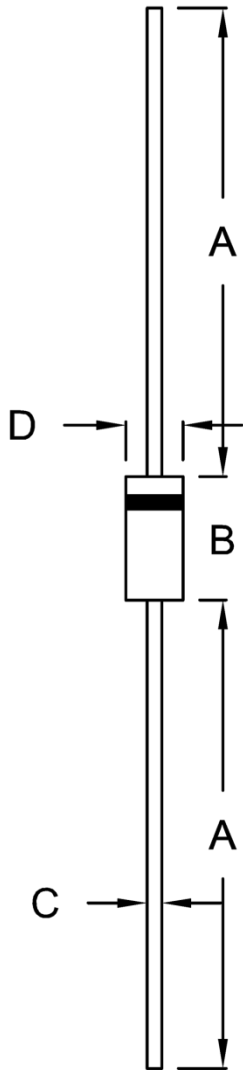
($T_A = 25^\circ\text{C}$ unless otherwise noted)

Fig.6 Reverse Recovery Time Characteristic and Test Circuit Diagram



PACKAGE OUTLINE DIMENSIONS

DO-204AC (DO-15)



DIM.	Unit (mm)		Unit (inch)	
	Min.	Max.	Min.	Max.
A	25.40	-	1.000	-
B	5.80	7.60	0.228	0.299
C	0.70	0.90	0.028	0.035
D	2.60	3.60	0.102	0.142

MARKING DIAGRAM



- P/N = Marking Code
- G = Green Compound
- YWW = Date Code
- F = Factory Code

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