

HER101-G Thru. HER108-G

Voltage: 50 to 1000 V

Current: 1.0 A

RoHS Device

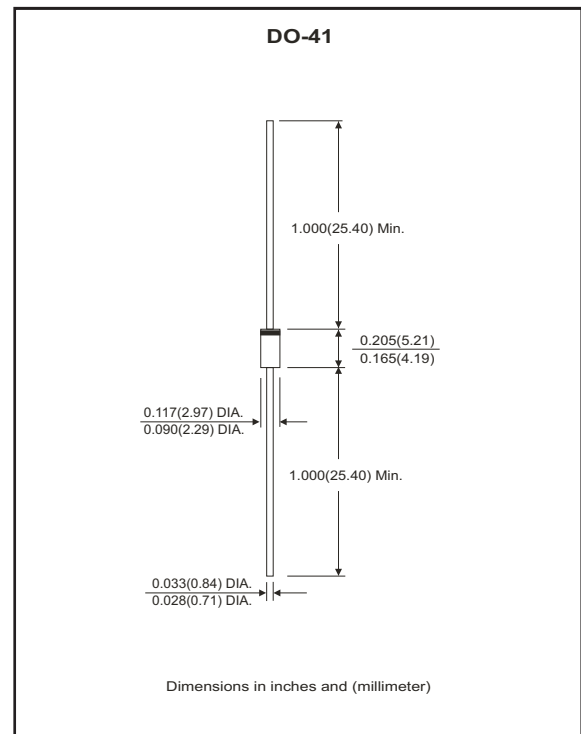


Features

- Glass passivated chip.
- Low forward voltage.
- High reliability.
- High surge current capability.
- High speed switching.

Mechanical data

- Case: JEDEC DO-41 molded plastic.
- Epoxy: UL 94V-0 rate flame retardant.
- Polarity: Color band denotes cathode end.
- Lead: Solderable per MIL-STD-202, method 208 guaranteed.
- Mounting position: Any
- Weight: 0.321 grams



Electrical Characteristics (at T_A=25°C unless otherwise noted)

Ratings at 25°C ambient temperature unless otherwise specified.

Single phase, half wave, 60Hz, resistive or inductive load.

For capacitive load derate current by 20%.

Parameter	Symbol	HER101 -G	HER102 -G	HER103 -G	HER104 -G	HER105 -G	HER106 -G	HER107 -G	HER108 -G	Unit
Maximum repetitive peak reverse voltage @I _T = 5μA	V _{RRM}	50	100	200	300	400	600	800	1000	V
Maximum RMS voltage	V _{RMS}	35	70	140	210	280	420	560	700	V
Maximum DC blocking voltage	V _{DC}	50	100	200	300	400	600	800	1000	V
Maximum average forward rectified current @T _A =25°C	I _(AV)	1.0								A
Maximum instantaneous forward voltage at specified current	V _F	1.0				1.3		1.7		V
Maximum DC reverse current	I _R	5.0								μA
Maximum reverse recovery time (Note 1)	t _{rr}	50					75			ns
Operating temperature range	T _J	-55 ~ +150								°C
Storage temperature range	T _{STG}	-55 ~ +150								°C

NOTES:

1. Reverse recovery test conditions: I_F=0.5A, I_R=1.0A, I_{RR}=0.25A(RGI circuit)

REV:A

Rating and Characteristic Curves (HER101-G Thru. HER108-G)

Fig.1- Forward Current Derating Curve

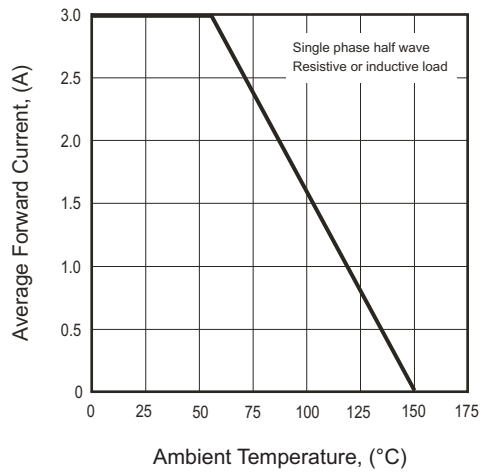


Fig.2- Typical Forward Characteristics

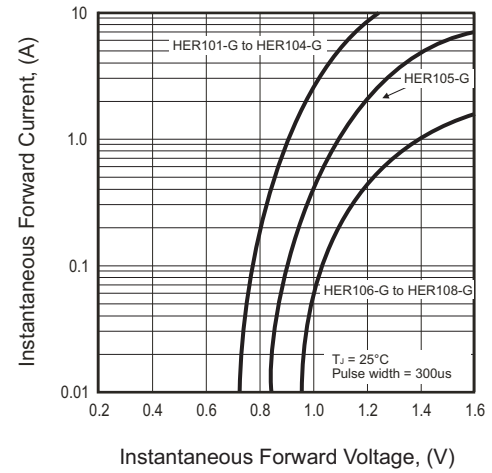


Fig.3- Peak Forward Surge Current

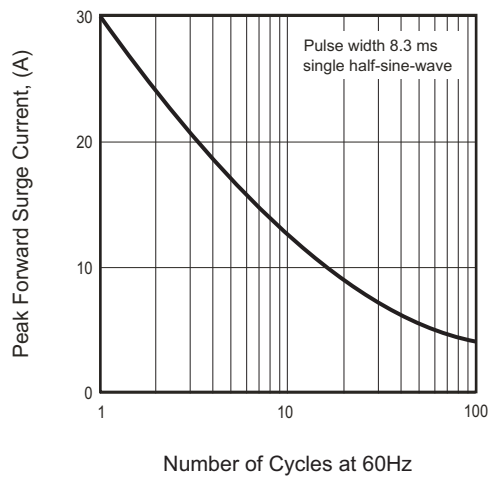
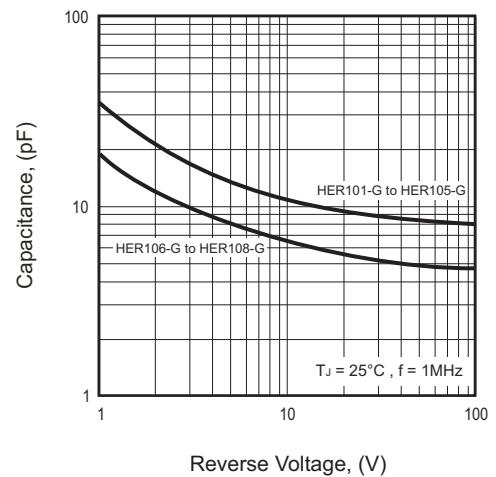
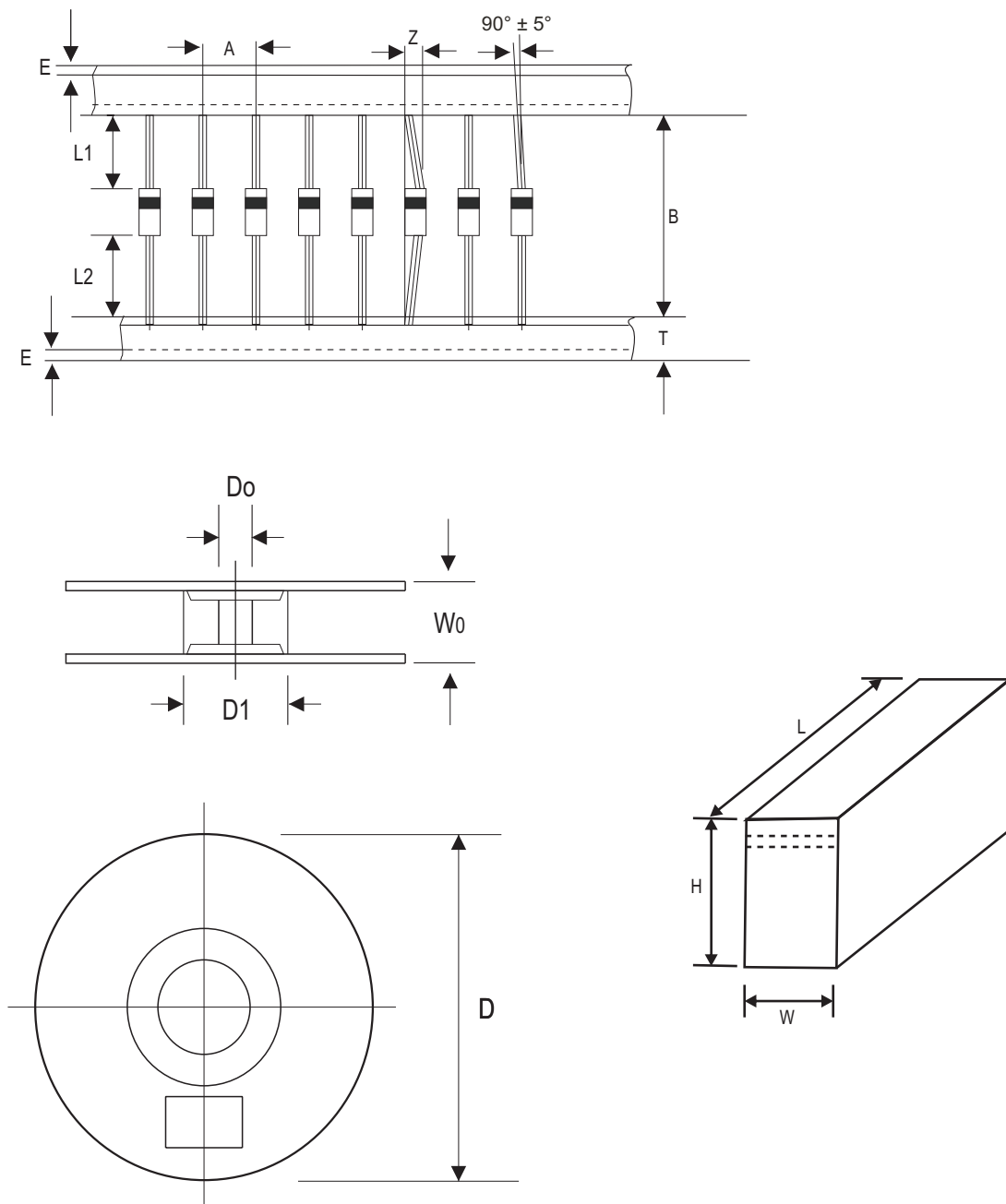


Fig.4- Typical Junction Capacitance



Taping Specification For Axial Lead Diodes



DO-41	SYMBOL	A	B	Z	T	E	L1-L2	
	(mm)	5.0 ± 0.50	52.0 ± 0.50	1.2 (max)	6.0 ± 0.40	3.0 (max)	1.0 (max)	
	(inch)	0.197 ± 0.020	2.047 ± 0.020	0.047 (max)	0.236 ± 0.016	0.118 (max)	0.039 (max)	

DO-41	SYMBOL	D1	D0	D	W0	L	W	H
	(mm)	85.7 ± 0.3	16.6 ± 0.4	330	72.0 ± 0.3	260.0 ± 5.0	75.0 ± 5.0	145.0 ± 5.0
	(inch)	3.374 ± 0.012	0.654 ± 0.016	13	2.835 ± 0.012	10.236 ± 0.197	2.953 ± 0.197	5.709 ± 0.197

Marking Code

Part Number	Marking code	Packaging
HER101-G	HER101	AMMO
HER102-G	HER102	AMMO
HER103-G	HER103	AMMO
HER104-G	HER104	AMMO
HER105-G	HER105	AMMO
HER106-G	HER106	AMMO
HER107-G	HER107	AMMO
HER108-G	HER108	AMMO
HER101T-G	HER101	REEL
HER102T-G	HER102	REEL
HER103T-G	HER103	REEL
HER104T-G	HER104	REEL
HER105T-G	HER105	REEL
HER106T-G	HER106	REEL
HER107T-G	HER107	REEL
HER108T-G	HER108	REEL
HER101B-G	HER101	BULK
HER102B-G	HER102	BULK
HER103B-G	HER103	BULK
HER104B-G	HER104	BULK
HER105B-G	HER105	BULK
HER106B-G	HER106	BULK
HER107B-G	HER107	BULK
HER108B-G	HER108	BULK



XXX = Product type marking code

Standard Package

Case Type	AMMO PACK		
	BOX (EA)	Box / Carton	CARTON (EA)
DO-41	3,000	10	30,000
	5,000	10	50,000

Case Type	AMMO REEL			
	REEL (EA)	Reel / Carton	CARTON (EA)	Reel Size (inch)
DO-41	5,000	4	20,000	13

Case Type	BULK PACK		
	BOX (EA)	Box / Carton	CARTON (EA)
DO-41	1,000	50	50,000