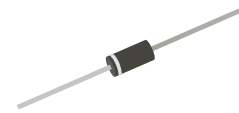


HER301G-G Thru. HER308G-G

Reverse Voltage: 50 to 1000 V

Forward Current: 3.0 A

RoHS Device

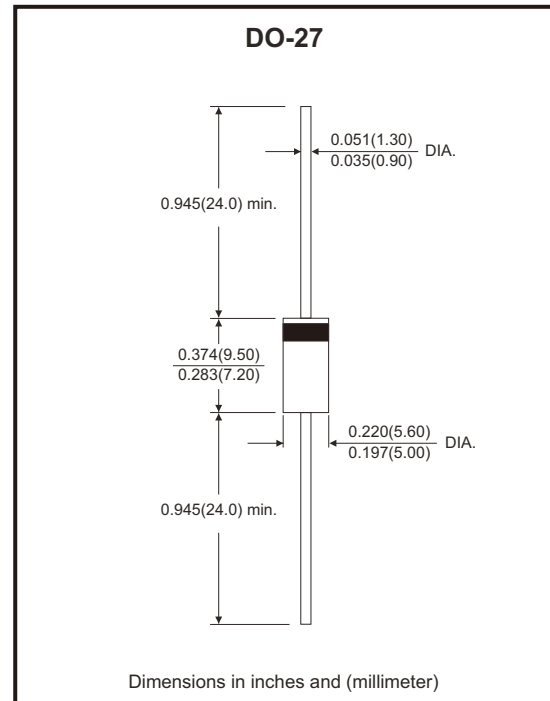


Features

- Open junction chip.
- Low reverse leakage.
- High forward surge current capability.
- High temperature soldering guaranteed 250°C/10 seconds at terminals.

Mechanical data

- Case: JEDEC DO-27 molded plastic.
- Epoxy: UL94V-0 rate flame retardant.
- Polarity: Color band denotes cathode end.
- Terminals: Solder plated, solderable per MIL-STD-750, method 2026.
- Mounting position: Any



Circuit Diagram



Maximum Ratings and Electrical Characteristics

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	HER 301G-G	HER 302G-G	HER 303G-G	HER 304G-G	HER 305G-G	HER 306G-G	HER 307G-G	HER 308G-G	Unit
Maximum repetitive peak reverse voltage @I _r = 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	I _F	3								A
Maximum instantaneous forward voltage at specified current	V _F	1.0				1.3		1.7		V
Maximum DC reverse current	I _R	5								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)

Rating and Characteristic Curves (HER301G-G Thru. HER308G-G)

Fig.1 - Forward Current Derating Curve

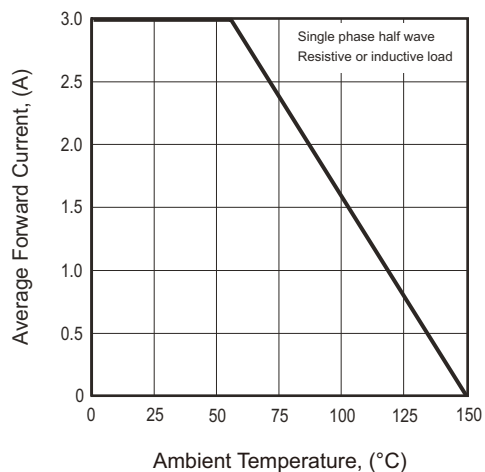


Fig.2 - Peak Forward Surge Current

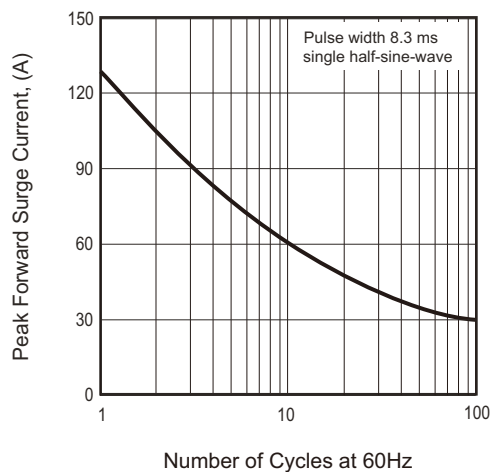


Fig.3 - Typical Forward Characteristics

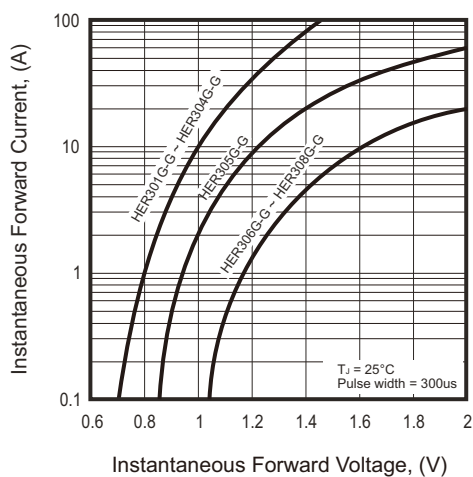
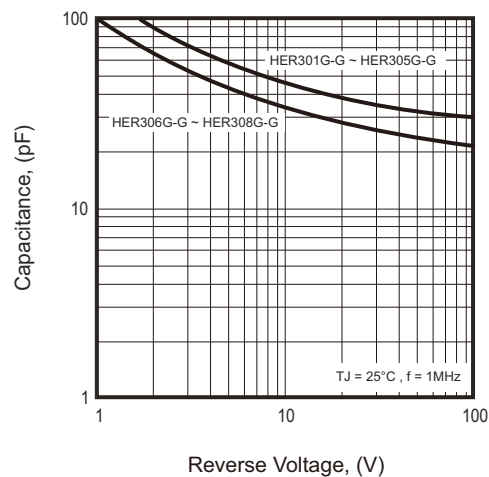
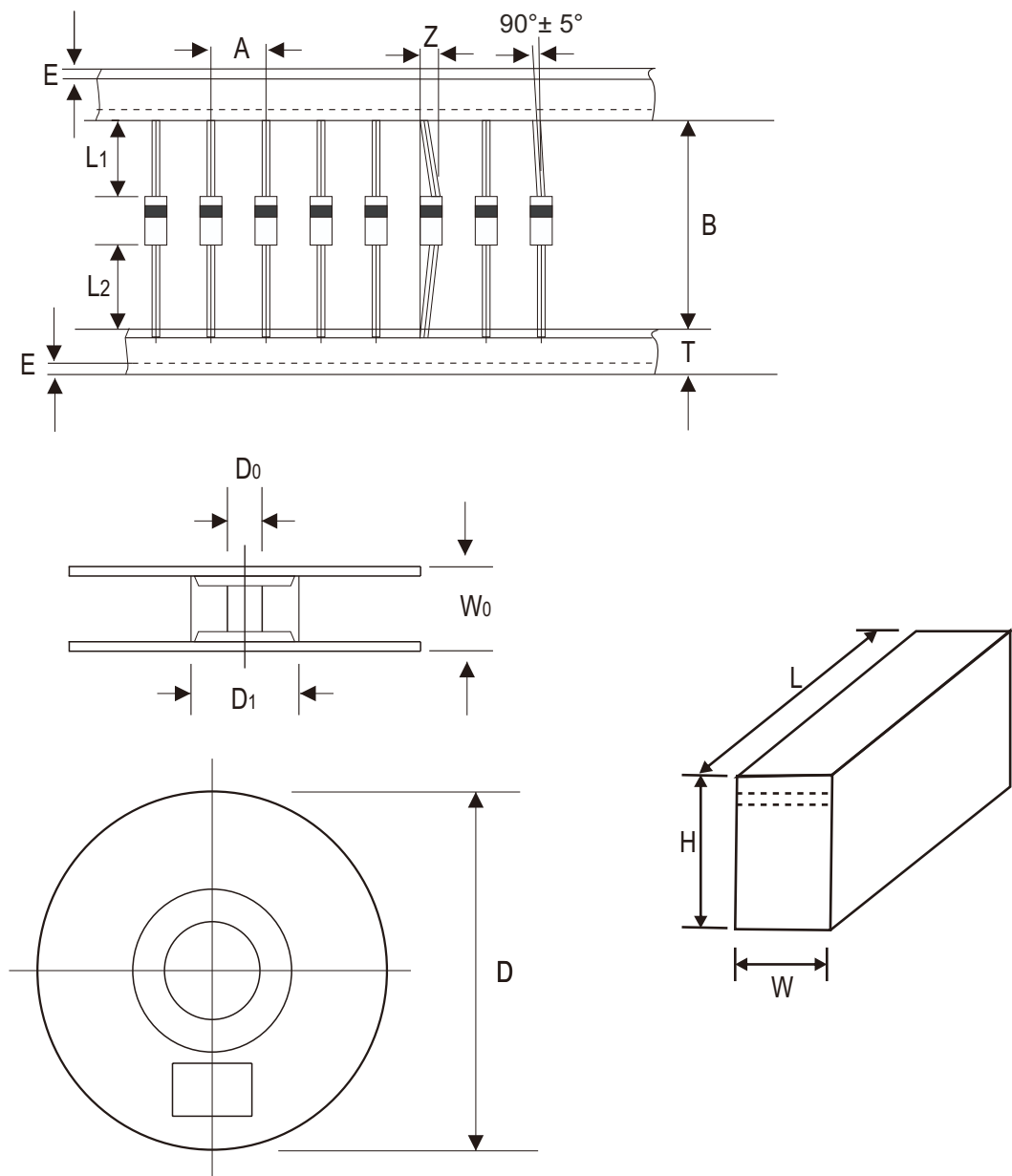


Fig.4 - Typical Junction Capacitance



Taping Specification For Axial Lead Diodes



DO-27	SYMBOL	A	B	Z	T	E	L1-L2
	(mm)	10.00 ± 0.50	52.40 + 1.50 - 0.40	1.20 (max)	6.00 ± 0.40	0.80 (max)	1.00 (max)
	(inch)	0.394 ± 0.020	2.063 + 0.059 - 0.016	0.047(max)	0.236 ± 0.016	0.031 (max)	0.039 (max)

DO-27	SYMBOL	D1	D0	D	W0	L	W	H
	(mm)	85.70 ± 0.30	16.60 ± 0.40	330	79 ± 1.00	255 ± 5.00	75 ± 5.00	150 ± 5.00
	(inch)	3.374 ± 0.012	0.654 ± 0.016	12.992	3.110 ± 0.039	10.039 ± 0.197	2.953 ± 0.197	5.906 ± 0.197

Company reserves the right to improve product design , functions and reliability without notice.

Marking Code

Part Number	Marking code	Packaging
HER301GA-G	HER301G	AMMO
HER302GA-G	HER302G	AMMO
HER303GA-G	HER303G	AMMO
HER304GA-G	HER304G	AMMO
HER305GA-G	HER305G	AMMO
HER306GA-G	HER306G	AMMO
HER307GA-G	HER307G	AMMO
HER308GA-G	HER308G	AMMO
HER301GB-G	HER301G	BULK
HER302GB-G	HER302G	BULK
HER303GB-G	HER303G	BULK
HER304GB-G	HER304G	BULK
HER305GB-G	HER305G	BULK
HER306GB-G	HER306G	BULK
HER307GB-G	HER307G	BULK
HER308GB-G	HER308G	BULK
HER301GT-G	HER301G	REEL
HER302GT-G	HER302G	REEL
HER303GT-G	HER303G	REEL
HER304GT-G	HER304G	REEL
HER305GT-G	HER305G	REEL
HER306GT-G	HER306G	REEL
HER307GT-G	HER307G	REEL
HER308GT-G	HER308G	REEL



XXX = Product type marking code

Note:

1) Suffix code after part number to specify packaging item .

Packaging	Code
AMMO PACK	A
BULK PACK	B
REEL PACK	T

Standard Packaging

Case Type	AMMO PACK
	BOX (pcs)
DO-27	1,200

Case Type	BULK PACK
	BOX (pcs)
DO-27	200

Case Type	REEL PACK	
	REEL (pcs)	Reel Size (inch)
DO-27	1,200	13

Company reserves the right to improve product design , functions and reliability without notice.

REV:C