

Chipsmall Limited consists of a professional team with an average of over 10 year of expertise in the distribution of electronic components. Based in Hongkong, we have already established firm and mutual-benefit business relationships with customers from, Europe, America and south Asia, supplying obsolete and hard-to-find components to meet their specific needs.

With the principle of "Quality Parts, Customers Priority, Honest Operation, and Considerate Service", our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip, ALPS, ROHM, Xilinx, Pulse, ON, Everlight and Freescale. Main products comprise IC, Modules, Potentiometer, IC Socket, Relay, Connector. Our parts cover such applications as commercial, industrial, and automotives areas.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!



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ACGRAT101-HF Thru. ACGRAT105-HF

Glass Passivated Type

Reverse Voltage: 200 to 1000 Volts

Forward Current: 1.0 Amp

RoHS Device Halogen Free

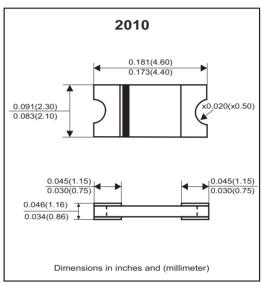
Features

- Glass passivated cavity-free junction.
- Lead less chip form, no lead damage.
- Low forward voltage drop.
- Plastic package has UL 94V-0.
- Comply with AEC-Q101

Mechanical data

- Case: Packed with FRP substrate and epoxy underfilled.
- Terminals: Pure Tin plated (Lead-Free), solderable per MIL-STD-750, method 2026.
- Polarity: Cathode Band, Laser marking.
- Weight: 0.02 grams(approx).





Circuit Diagram



Absolute Maximum Ratings (at Ta=25°C unless otherwise noted)

Parameter	Symbol	ACGRAT 101-HF	ACGRAT 102-HF	ACGRAT 103-HF	ACGRAT 104-HF	ACGRAT 105-HF	Units
Repetitive peak reverse voltage	VRRM	200	400	600	800	1000	V
Peak forward surge current, 8.3ms single half sine-wave superimposed on rate load (JEDEC method)	Ігѕм	30					А
Average forward current	I _{F(AV)}	1.0					А
Operating junction temperature	TJ	-65 to +175					°C
Storage temperature	Тѕтѕ	-65 to +175					°C

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

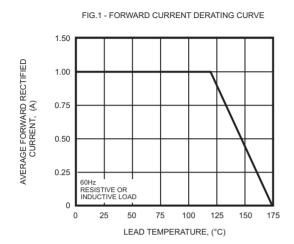
	*	•				
Parameter	Conditions	Symbol	MIN.	TYP.	MAX.	Unit
Forward voltage	IF =1.0A	VF	-	0.95	1	٧
Repetitive peak reverse current	VR =Max. VRRM, TA=25°C	IRRM	-	0.10	5	uA
Junction capacitance	VR=4V, f=1.0MHz	Cı	-	8	-	pF
Thermal Resistance	Junction to ambient (Note)	Reja	-	65	-	°C/M
memai nesisiance	Junction to lead (Note)	Rejl	-	15	-	°C/W

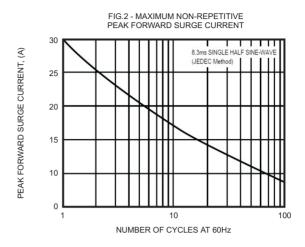
Notes: Thermal resistance from junction to ambient and from junction to lead P.C.B. monuted on $0.2 \times 0.2" (5.0*5.0mm)$ copper pad areas.

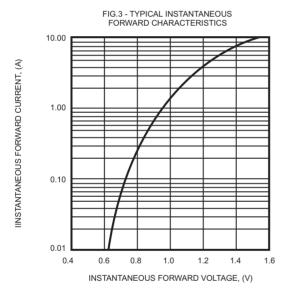
SMD General Purpose Rectifiers

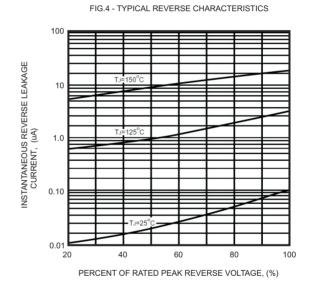


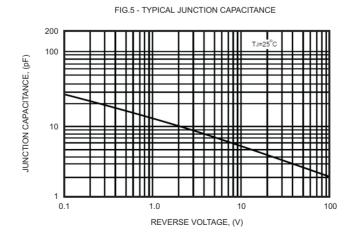
RATING AND CHARACTERISTIC CURVES (ACGRAT101-HF thru. ACGRAT105-HF)







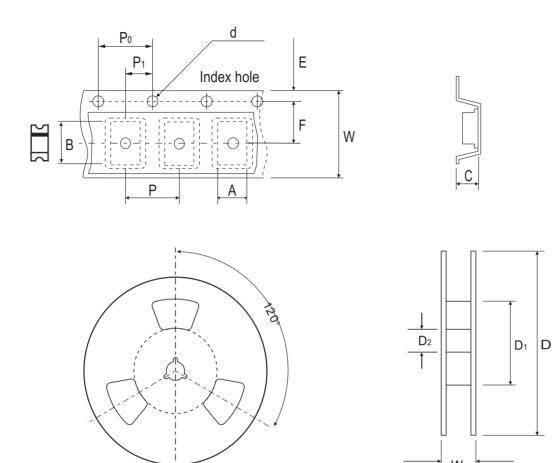


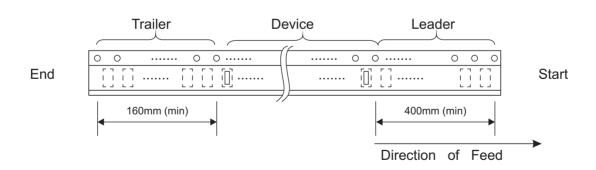


Company reserves the right to improve product design, functions and reliability without notice.



Reel Taping Specification





	SYMBOL	Α	В	С	d	D	D₁	D ₂
2010	(mm)	4.75 ± 0.10	2.45 ± 0.10	1.30± 0.10	1.50 ± 0.10	178.00 ± 2.00	50.00 MIN.	13.00 ± 0.50
	(inch)	0.187 ± 0.004	0.096 ± 0.004	0.051 ± 0.004	0.059 ± 0.004	7.008 ± 0.079	1.969 MIN.	0.512 ± 0.020

	SYMBOL	E	F	Р	P₀	P₁	W	W 1
2010	(mm)	1.75 ± 0.10	5.50 ± 0.05	4.00 ± 0.10	4.00 ± 0.10	2.00 ± 0.10	12.00 ± 0.30	18.70 MAX.
	(inch)	0.069 ± 0.004	0.217 ± 0.002	0.157 ± 0.004	0.157 ± 0.004	0.079 ± 0.004	0.472 ± 0.012	0.736 MAX.



Marking Code

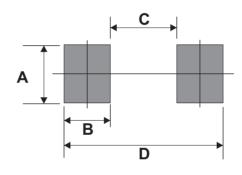
Part Number	Marking Code
ACGRAT101-HF	10D
ACGRAT102-HF	10G
ACGRAT103-HF	10J
ACGRAT104-HF	10K
ACGRAT105-HF	10M



XXX = Product type marking code

Suggested PAD Layout

SIZE	2010				
SIZE	(mm)	(inch)			
Α	1.47MIN.	0.058MIN.			
В	1.27MIN.	0.050MIN.			
С	2.60MAX.	0.102MAX.			
D	5.14REF.	0.202 REF.			



Standard Packaging

	REEL PACK			
Case Type	REEL (pcs)	Reel Size (inch)		
2010	3,000	7		