

ACGRAT101L-HF Thru. ACGRAT105L-HF

Glass Passivated Type

Reverse Voltage: 200 to 1000 Volts

Forward Current: 1.0 Amp

RoHS Device Halogen Free

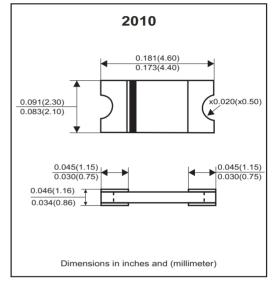


Features

- 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, 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 101L-HF	ACGRAT 102L-HF	ACGRAT 103L-HF	ACGRAT 104L-HF	ACGRAT 105L-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	40				А	
Average forward current	I _{F(AV)}	1.0				А	
Operating junction temperature	TJ	-65 to +175				°C	
Storage temperature	Тѕтс	-65 to +175				°C	

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

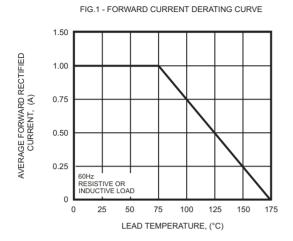
Parameter	Conditions	Symbol	MIN.	TYP.	MAX.	Unit
Forward voltage	IF =1.0A	VF	-	0.91	0.93	V
Repetitive peak reverse current	Vr =Max. Vrrm, Ta=25°C	IRRM	-	0.08	5	uA
Junction capacitance	VR=4V, f=1.0MHz	Cı	-	8.2	-	pF
Thermal Resistance	Junction to ambient (Note)	RөJA	-	70	-	°C/M
Thermal Nesistance	Junction to lead (Note)	Rejl	-	8	-	°C/W

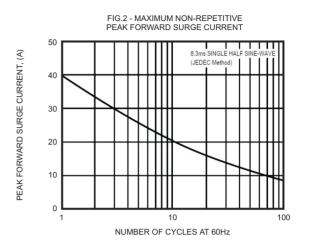
Notes: Thermal resistance from junction to ambient and from junction to lead P.C.B. monuted on 0.2×0.2"(5.0*5.0mm) copper pad areas.

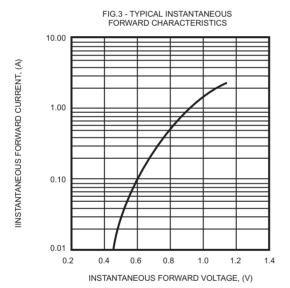
Low VF SMD General Purpose Rectifiers

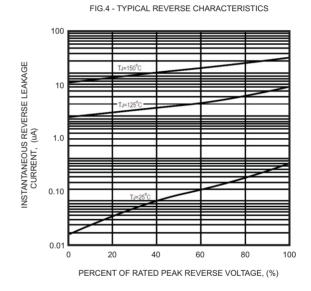


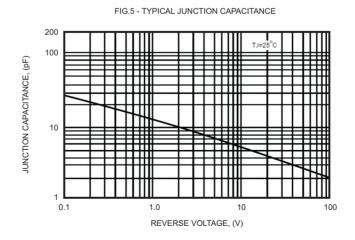
RATING AND CHARACTERISTIC CURVES (ACGRAT101L-HF thru ACGRAT105L-HF)







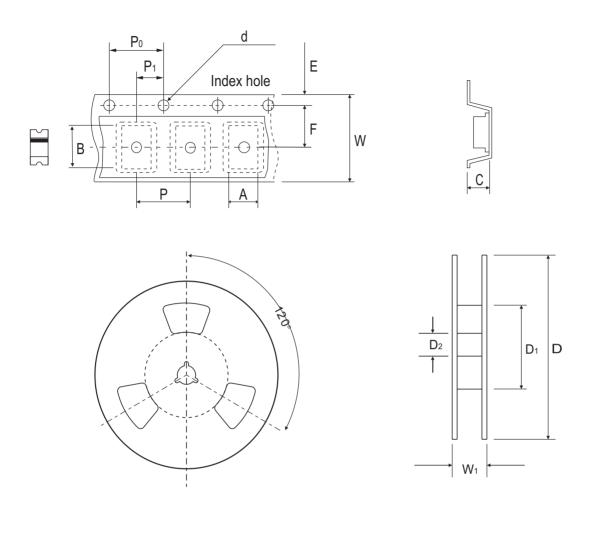


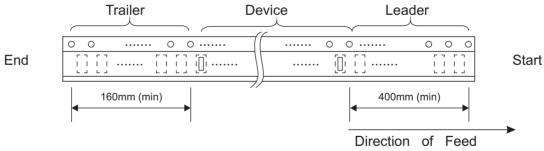


Company reserves the right to improve product design, functions and reliability without notice.



Reel Taping Specification





	SYMBOL	Α	В	С	d	D	D ₁	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.

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



Marking Code

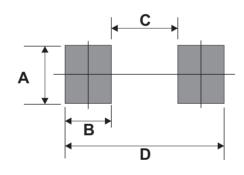
Part Number	Marking Code
ACGRAT101L-HF	10D
ACGRAT102L-HF	10G
ACGRAT103L-HF	10J
ACGRAT104L-HF	10K
ACGRAT105L-HF	10M



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		

Mouser Electronics

Authorized Distributor

Click to View Pricing, Inventory, Delivery & Lifecycle Information:

Comchip Technology:

ACGRAT105L-HF ACGRAT101L-HF ACGRAT103L-HF ACGRAT102L-HF ACGRAT104L-HF