

ACGRAT101-HF Thru. ACGRAT105-HF

Glass Passivated Type

Reverse Voltage: 200 to 1000 Volts

Forward Current: 1.0 Amp

RoHS Device Halogen Free

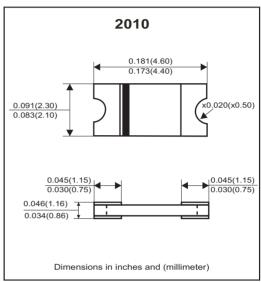
Features

- 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	RM 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	Тл	-65 to +175					°C
Storage temperature	Тѕтѕ	-65 to +175					°C

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

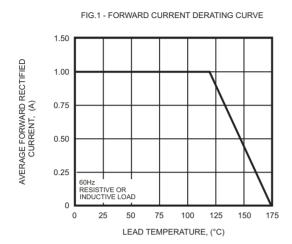
Parameter	Conditions	Symbol	MIN.	TYP.	MAX.	Unit
Forward voltage	IF =1.0A	VF	-	0.95	1	٧
Repetitive peak reverse current	Vr =Max. Vrrm, Ta=25°C	IRRM	-	0.10	5	uA
Junction capacitance	VR=4V, f=1.0MHz	Cı	-	8	-	pF
Thermal Resistance	Junction to ambient (Note)	RөJA	-	65	-	°C/M
memai resistance	Junction to lead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

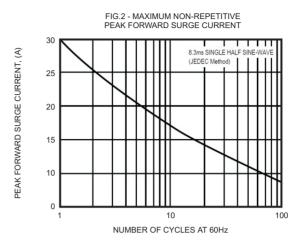
Notes: Thermal resistance from junction to ambient and from junction to lead P.C.B. monuted on $0.2 \times 0.2" (5.0*5.0mm)$ copper pad areas.

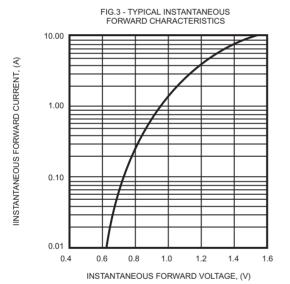
SMD General Purpose Rectifiers

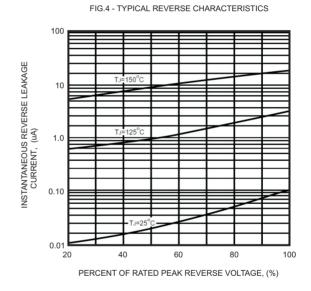


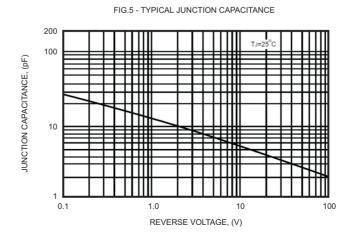
RATING AND CHARACTERISTIC CURVES (ACGRAT101-HF thru. ACGRAT105-HF)







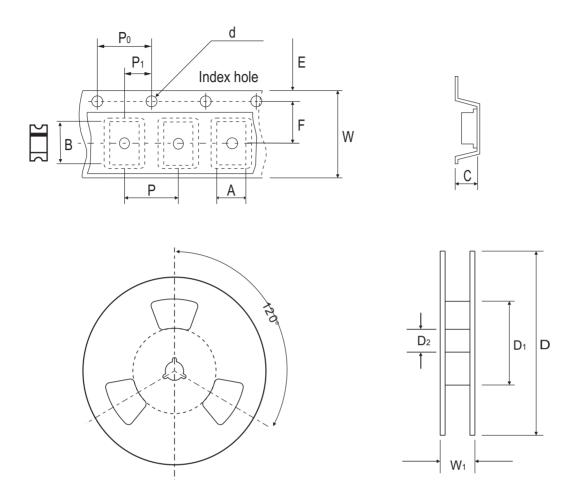


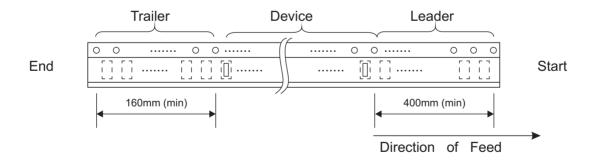


Company reserves the right to improve product design, functions and reliability without notice.



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

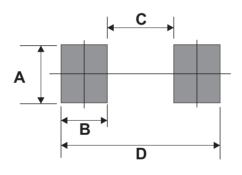
Part Number	Marking Code
ACGRAT101-HF	10D
ACGRAT102-HF	10G
ACGRAT103-HF	10J
ACGRAT104-HF	10K
ACGRAT105-HF	10M



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		

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