

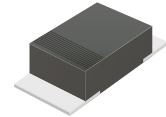
CGRM4004-HF Thru. CGRM4007-HF

Reverse Voltage: 400 to 1000 Volts

Forward Current: 1.0 Amp

RoHS Device

Halogen Free

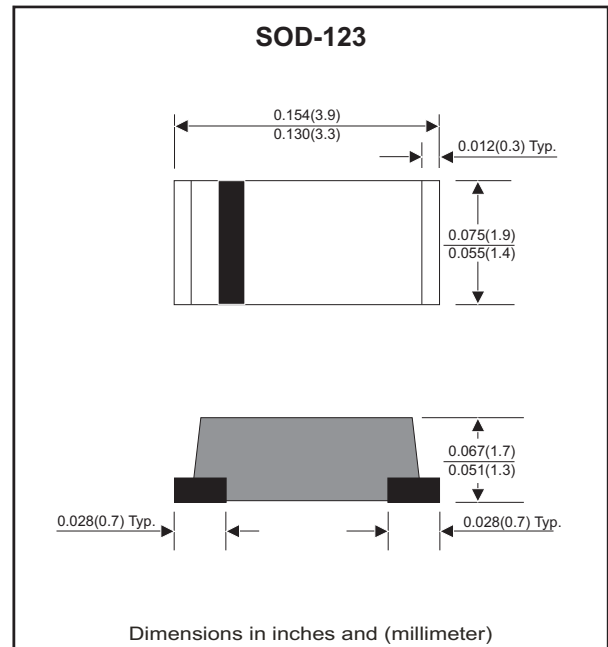


Features

- Ideal for surface mount applications.
- Easy pick and place.
- Plastic package has Underwriters Lab. flammability classification 94V-0.
- Exceeds environmental standards of MIL-STD-19500/228.
- Low leakage current.

Mechanical data

- Case: Molded plastic, JEDEC SOD-123/Mini SMA.
- Terminals: Solderable per MIL-STD-750, method 2026.
- Polarity: Indicated by cathode band.
- Weight: 0.018 grams approx.



Circuit diagram



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

Parameter	Symbol	CGRM 4004-HF	CGRM 4005-HF	CGRM 4007-HF	Unit
Max. repetitive peak reverse voltage	V _{RRM}	400	600	1000	V
Max. DC blocking voltage	V _{DC}	400	600	1000	V
Max. RMS voltage	V _{RMS}	280	420	700	V
Max. averaged forward current	I _O	1.0			A
Maximum Instantaneous forward voltage at I _F =1.0A	V _F	1.1	1.0	1.1	V
Forward surge current, 8.3ms single half sine-wave superimposed on rated load (JEDEC method)	I _{FSM}	30			A
Reverse current at rated @T _A =25°C DC blocking voltage @T _A =125°C	I _R	5 50			μA
Thermal resistance, junction to ambient air	R _{θJA}	60			°C/W
Operating junction temperature	T _J	-55 to +150			°C
Storage temperature range	T _{STG}	-65 to +175			°C
Junction capacitance f=1MHz and applied 4V DC reverse voltage	C _J	15			pF

Rating and Characteristic Curves (CGRM4004-HF Thru. CGRM4007-HF)

Fig.1 - Reverse Characteristics

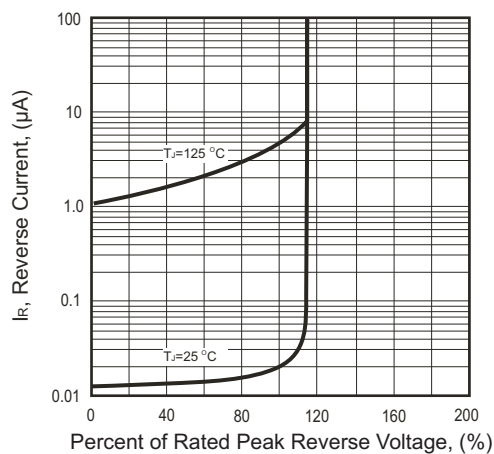


Fig.2 - Forward Characteristics

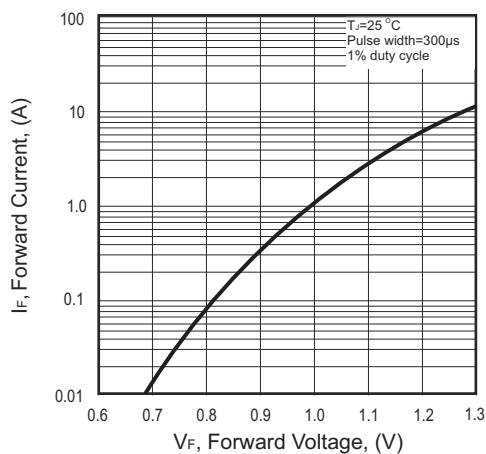


Fig.3 - Junction Capacitance

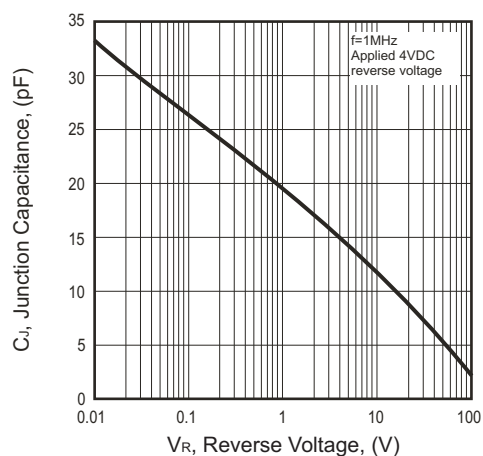


Fig.4 - Current Derating Curve

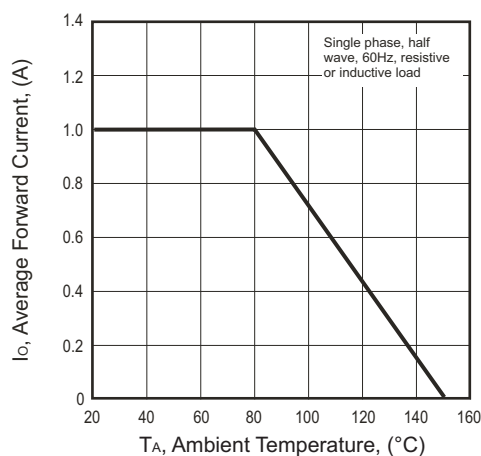
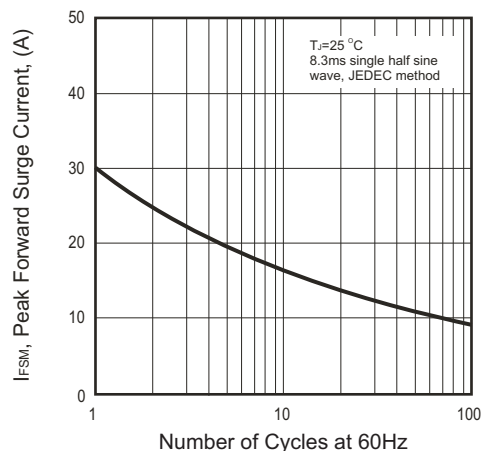
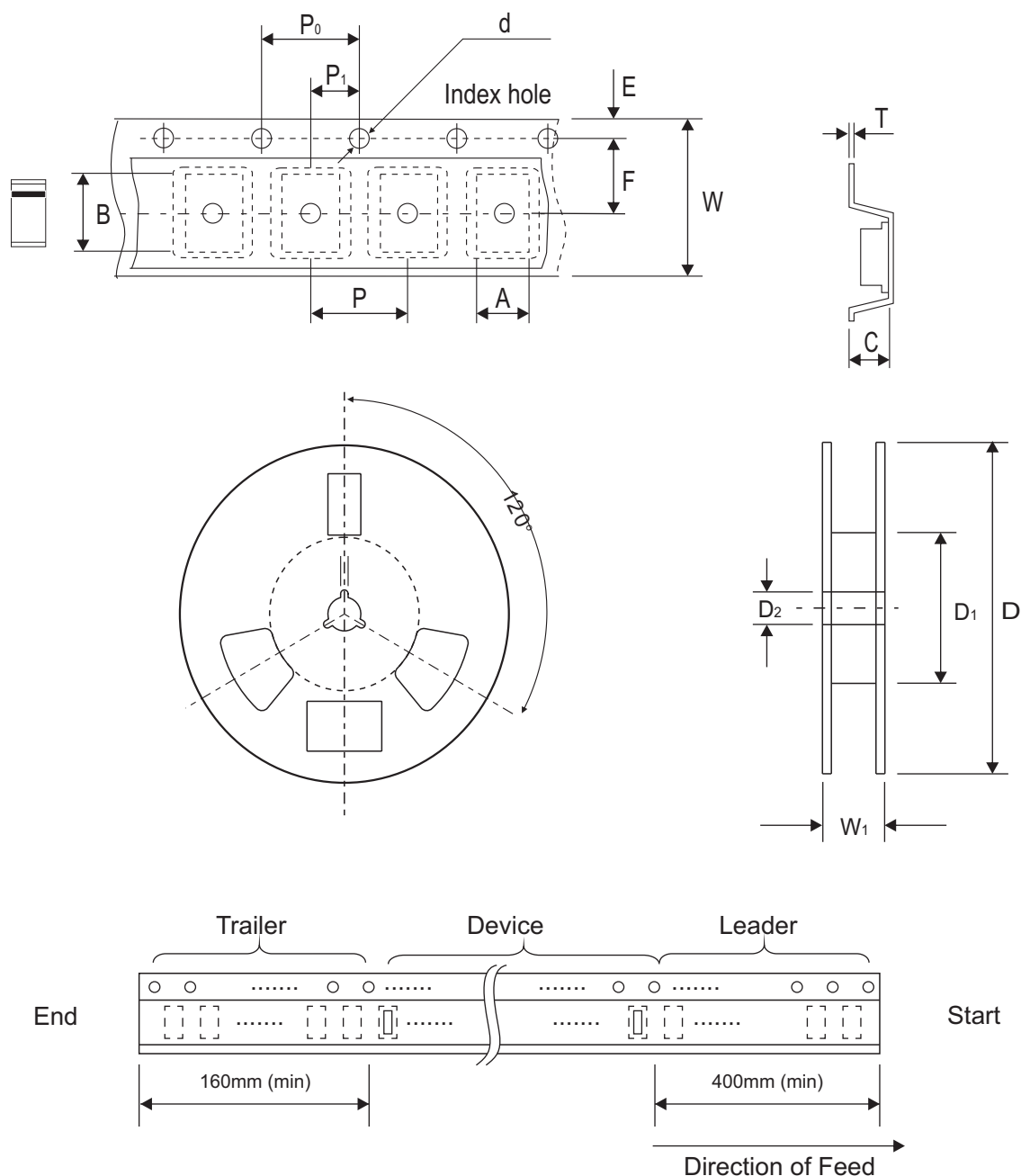


Fig.5 - Non-Repetitive Forward Surge Current



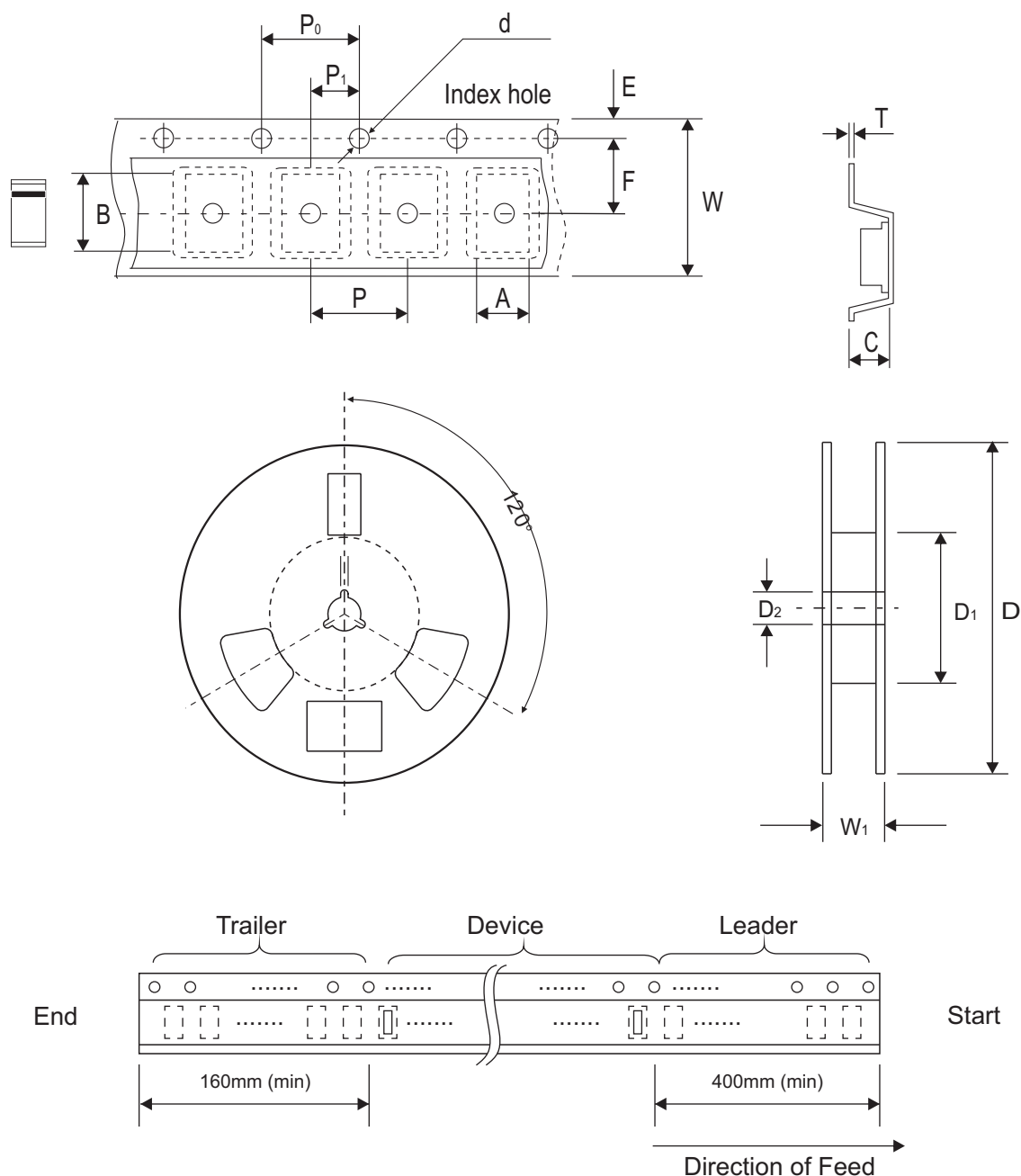
Reel Taping Specification (7" Reel)



	SYMBOL	A	B	C	d	D	D1	D2
Mini-SMA/SOD-123	(mm)	1.90 ± 0.10	3.90 ± 0.10	1.68 ± 0.10	1.50 ± 0.10	178.00 ± 2.00	62.00 MIN.	13.00 ± 0.50
	(inch)	0.075 ± 0.04	0.153 ± 0.04	0.066 ± 0.04	0.059 ± 0.004	7.00 ± 0.079	2.440 MIN.	0.512 ± 0.020

	SYMBOL	E	F	P	P0	P1	T	W	W1
Mini-SMA/SOD-123	(mm)	1.75 ± 0.10	3.50 ± 0.10	4.00 ± 0.10	4.00 ± 0.10	2.00 ± 0.10	0.23 ± 0.10	8.00 ± 0.30	11.40 ± 1.00
	(inch)	0.069 ± 0.004	0.138 ± 0.004	0.157 ± 0.004	0.157 ± 0.004	0.079 ± 0.004	0.009 ± 0.004	0.315 ± 0.012	0.449 ± 0.040

Reel Taping Specification (13" Reel)



Mini-SMA/SOD-123	SYMBOL	A	B	C	d	D	D1	D2
	(mm)	1.90 ± 0.10	3.90 ± 0.10	1.68 ± 0.10	1.50 ± 0.10	330.00 ± 2.00	62.00 MIN.	13.00 ± 0.50
	(inch)	0.075 ± 0.04	0.153 ± 0.04	0.066 ± 0.04	0.059 ± 0.004	12.99 ± 0.079	2.440 MIN.	0.512 ± 0.020

Mini-SMA/SOD-123	SYMBOL	E	F	P	P0	P1	T	W	W1
	(mm)	1.75 ± 0.10	3.50 ± 0.10	4.00 ± 0.10	4.00 ± 0.10	2.00 ± 0.10	0.23 ± 0.10	8.00 ± 0.30	11.40 ± 1.0
	(inch)	0.069 ± 0.004	0.138 ± 0.004	0.157 ± 0.004	0.157 ± 0.004	0.079 ± 0.004	0.009 ± 0.004	0.315 ± 0.012	0.449 ± 0.040

Marking Code

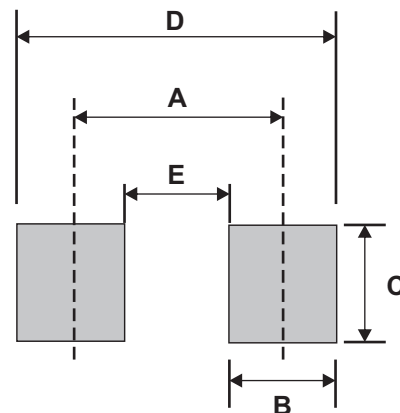
Part Number	Marking Code
CGRM4004-HF	A4
CGRM4005-HF	A5
CGRM4007-HF	A7



xx = Product type marking code

Suggested PAD Layout

SIZE	Mini-SMA/SOD-123	
	(mm)	(inch)
A	3.30	0.130
B	1.40	0.055
C	1.90	0.075
D	4.70	0.185
E	1.90	0.075



Standard Packaging

Case Type	Qty Per Reel	Reel Size
	(Pcs)	(inch)
Mini-SMA/SOD-123	2,500	7
	10,000	13