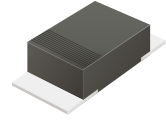


CEFM101-G Thru. CEFM105-G

Reverse Voltage: 50 to 600 Volts

Forward Current: 1.0 Amp

RoHS Device

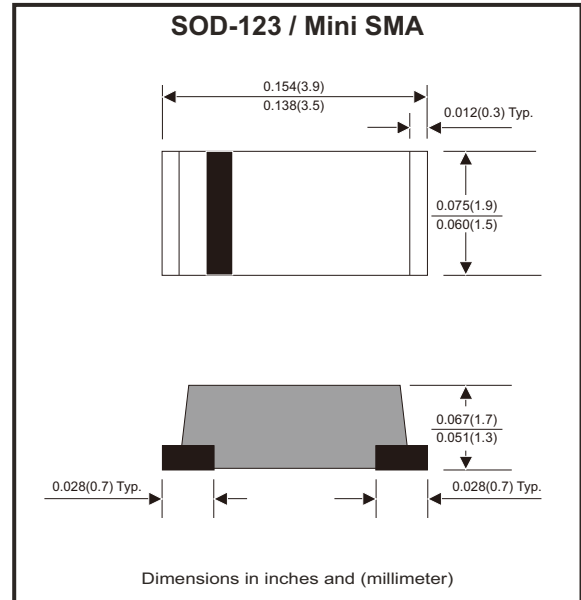


Features

- Ideal for surface mount applications.
- Easy pick and place.
- Plastic package has Underwriters Lab. flammability classification 94V-0.
- Super fast recovery time for high efficient.
- Built-in strain relief.
- Low forward voltage drop.

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 (at TA=25°C unless otherwise noted)

Parameter		Symbol	CEFM101-G	CEFM102-G	CEFM104-G	CEFM105-G	Unit
Repetitive peak reverse voltage		V _{RRM}	50	100	400	600	V
Continuous reverse voltage		V _R	50	100	400	600	V
RMS voltage		V _{RMS}	35	70	280	420	V
MAX. Forward surge current		I _O	1.0				A
MAX. Forward voltage at I _F =1.0A		V _F	0.875		1.25	1.75	V
MAX. Forward surge current, 8.3ms single half sine-wave superimposed on rated load (JEDEC method)		I _{FSM}	25				A
MAX. Reverse recovery time, (Note 1)		T _{rr}	25				nS
MAX. Reverse current	V _R =V _{RR} T _J =25°C	I _R	5.0				μA
	V _R =V _{RR} T _J =125°C		100				
TYP. Diode junction capacitance (f=1MHz and applied 4V DC reverse voltage)		C _J	15				pF
Operating junction temperature		T _J	-55 to +150				°C
Storage temperature range		T _{STG}	-65 to +175				°C

Note 1: Reverse recovery time test condition, $I_F=0.5A$, $I_R=1.0A$, $I_{RR}=0.25A$

Rating and Characteristic Curves (CEFM101 -G Thru. CEFM105-G)

Fig.1 - Typical Forward Characteristics

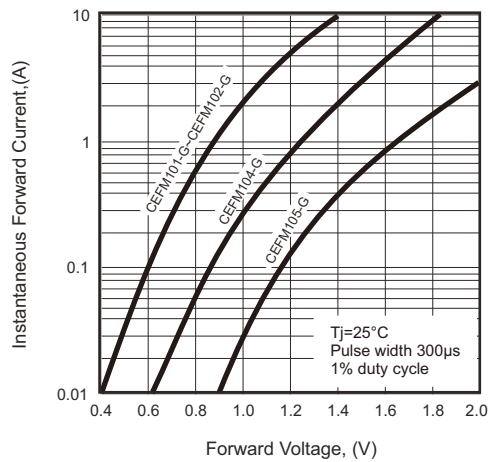


Fig. 2 - Typical Forward Current Derating Curve

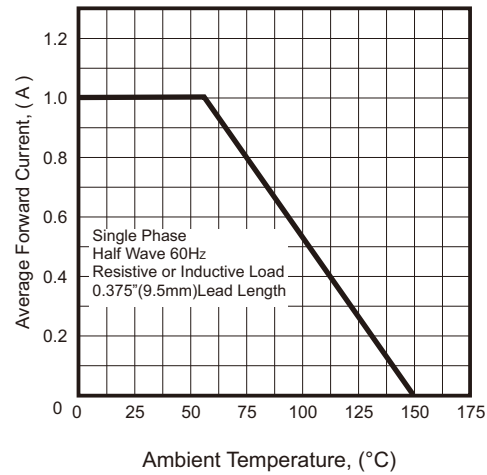
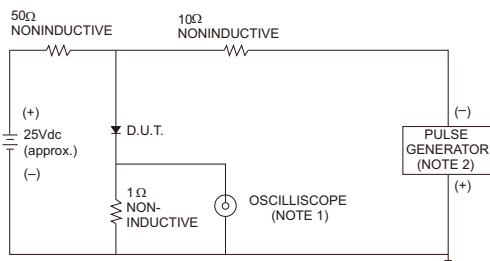


Fig. 3 - Test Circuit Diagram and Reverse Recovery Time Characteristics



NOTES: 1. Rise Time= 7ns max., Input Impedance= 1 megohm.22pF.
2. Rise Time= 10ns max., Source Impedance= 50 ohms.

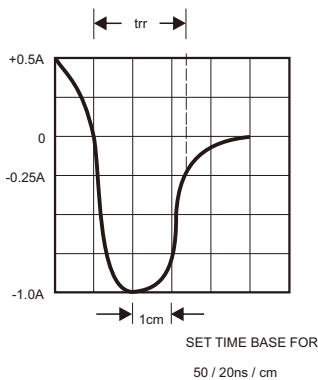


Fig. 4 - Maximum Non-Repetitive Forward Surge Current

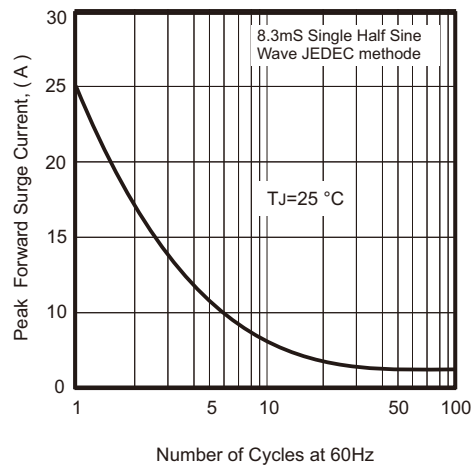
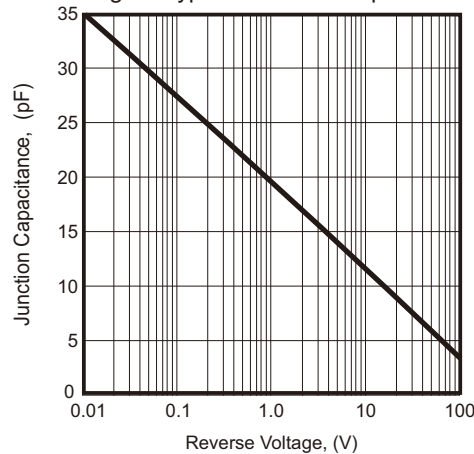
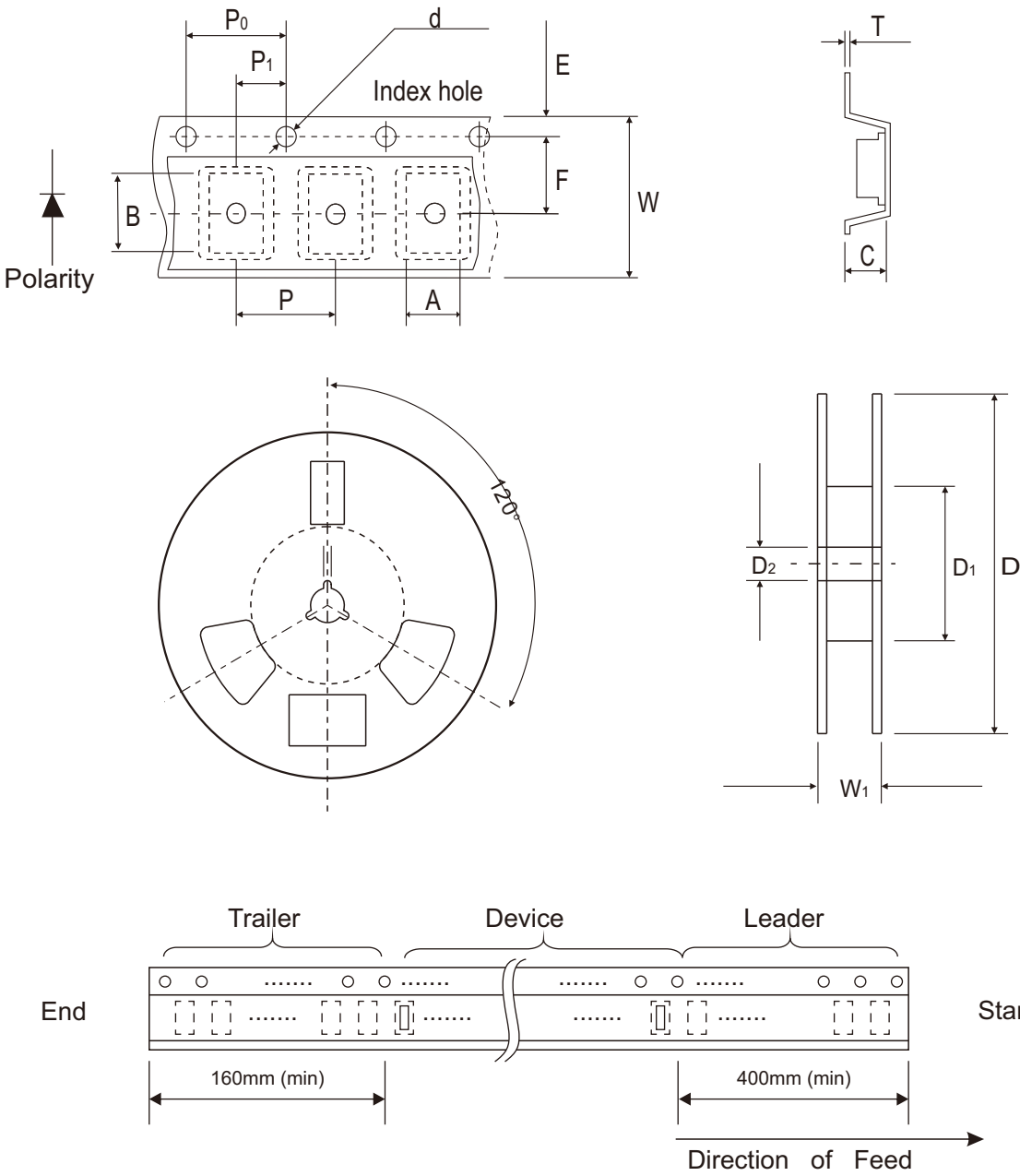


Fig.5 - Typical Junction Capacitance



Reel Taping Specification



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	178 ± 2.00	62.0 MIN.	13.0 ± 0.50
	(inch)	0.075 ± 0.04	0.154 ± 0.04	0.066 ± 0.04	0.059 ± 0.004	7.00 ± 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 ± 0.039

Marking Code

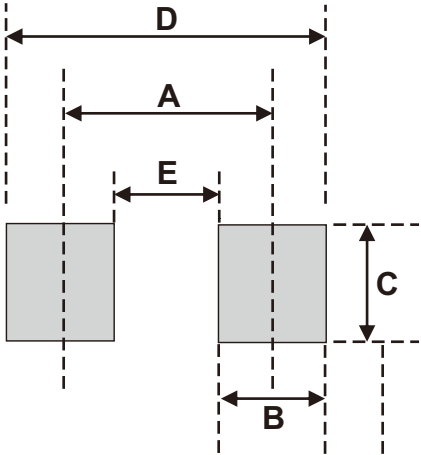
Part Number	Marking Code
CEFM101-G	E1
CEFM102-G	E2
CEFM104-G	E4
CEFM105-G	E5



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	2500	7