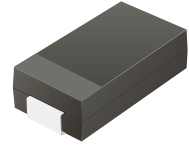


CFRB201-G Thru. CFRB207-G

Reverse Voltage: 50 to 1000 Volts

Forward Current: 2.0 Amp

RoHS Device

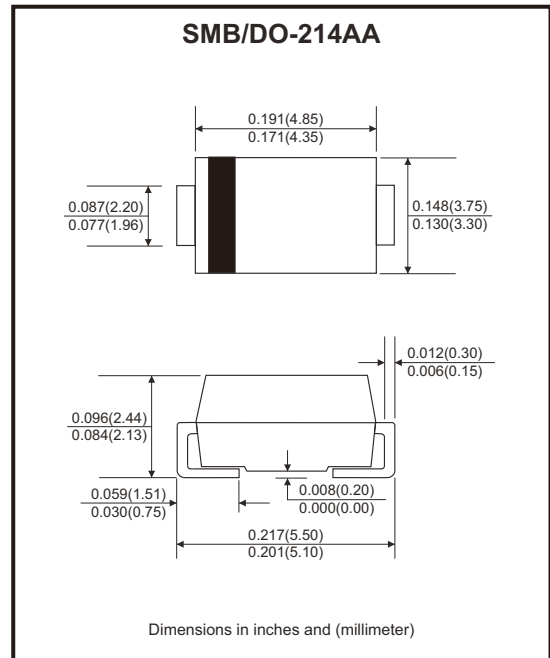


Features

- Glass passivated chip.
- Low forward voltage.
- High current capability.
- High reliability.
- High surge current capability.

Mechanical data

- Case: JEDEC DO-214AA, molded plastic.
- Epoxy: UL 94V-0 rate flame retardant.
- Terminals: Solderable per MIL-STD-750, method 2026.
- Polarity: Color band denotes cathode end.
- Weight: 0.093 grams (approx.).



Circuit Diagram



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

Parameter	Symbol	CFRB 201-G	CFRB 202-G	CFRB 203-G	CFRB 204-G	CFRB 205-G	CFRB 206-G	CFRB 207-G	Units
Max. repetitive peak reverse voltage @ $I_T=5\mu A$	V_{RRM}	50	100	200	400	600	800	1000	V
Max. DC blocking voltage	V_{DC}	50	100	200	400	600	800	1000	V
Max. RMS voltage	V_{RMS}	35	70	140	280	420	560	700	V
Max. average forward rectified current @ $T_A=25^\circ C$	I_F	2.0							A
Max. instantaneous forward voltage at 2.0A	V_F	1.3							V
Max. reverse recovery time (Note 1)	T_{rr}	150				250	500		nS
Max. DC reverse current	I_R	5.0							μA
Operating temperature range	T_J	-55 to +150							$^\circ C$
Storage temperature range	T_{STG}	-55 to +150							$^\circ C$

Notes: 1. Reverse recovery test conditions: $I_F=0.5A$, $I_R=1.0A$, $I_{RR}=0.25A$ (RG1 circuit)

Rating and Characteristic Curves (CFRB201-G thru CFRB207-G)

Fig.1 - Forward Current Derating Curve

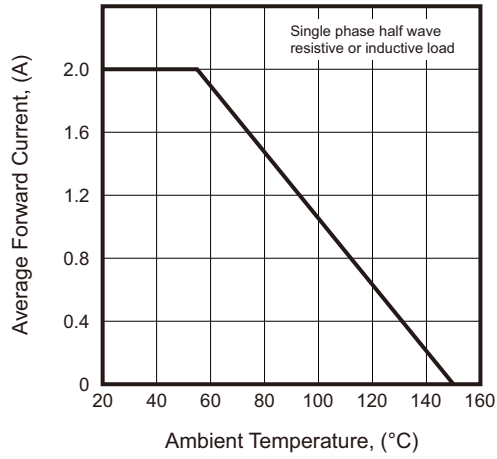


Fig.2 - Peak Forward Surge Current

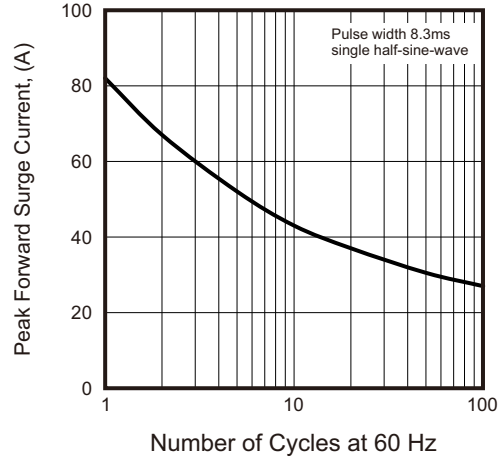


Fig.3 - Typical Forward Characteristics

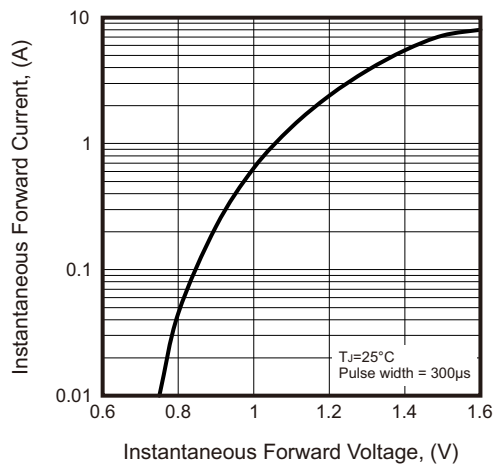
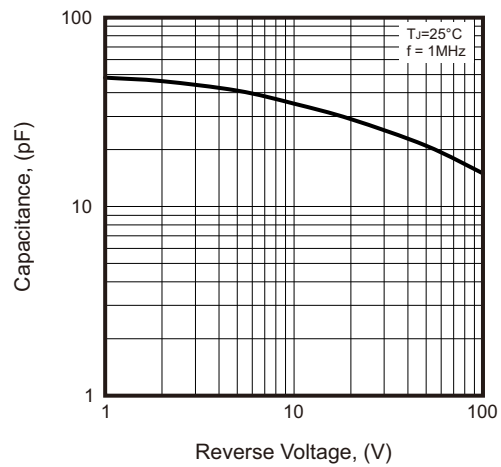
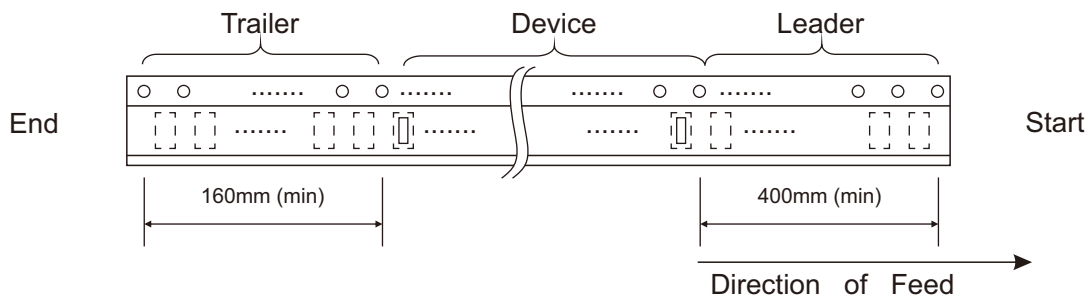
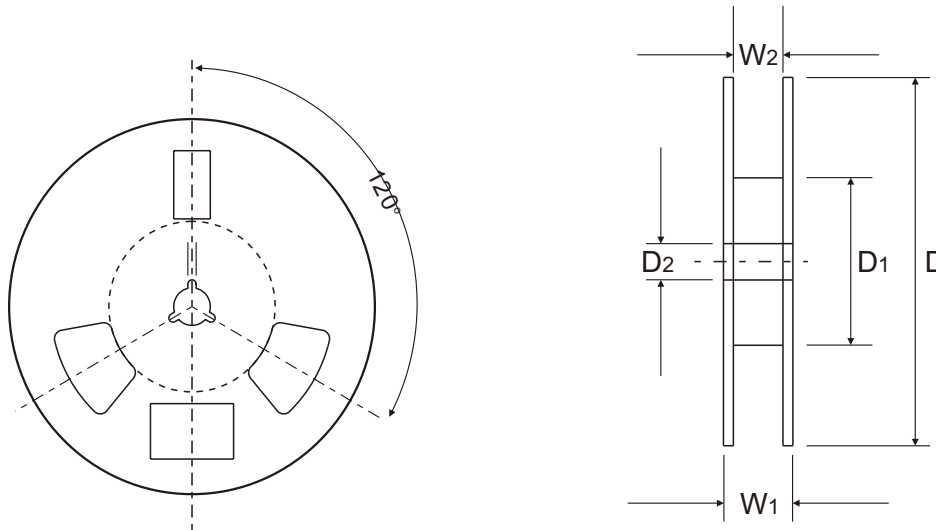
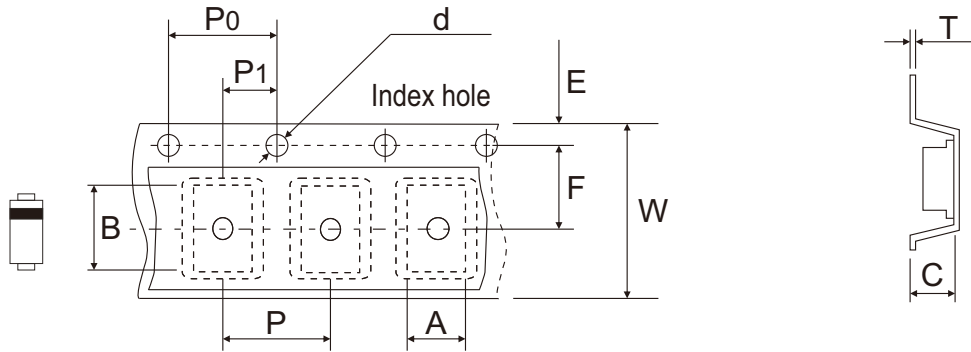


Fig.4 - Typical Junction Capacitance



Reel Taping Specification



DO-214AA (SMB)	SYMBOL	A	B	C	d	D	D1	D2	E
	(mm)	See Note 1			1.55 ± 0.05	330.00	50.00 (Min.)	13.00 ± 0.50	1.75 ± 0.05
	(inch)	See Note 1			0.061 ± 0.002	12.992	1.969 (Min.)	0.512 ± 0.020	0.069 ± 0.002

DO-214AA (SMB)	SYMBOL	F	P	P0	P1	T	W	W1	W2
	(mm)	5.50 ± 0.05	8.00 ± 0.10	4.00 ± 0.10	2.00 ± 0.05	0.40 (Max.)	12.00 ± 0.10	18.40 (Max.)	14.40 (Max.)
	(inch)	0.217 ± 0.002	0.315 ± 0.004	0.157 ± 0.004	0.079 ± 0.002	0.016 (Max.)	0.472 ± 0.004	0.724 (Max.)	0.567 (Max.)

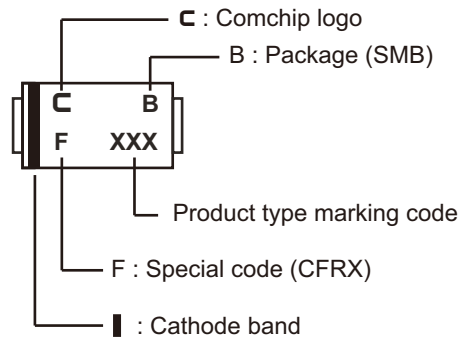
Notes: 1. A, B, and C the clearance between the component and the cavity must be within 0.5mm max. for 8mm tape and 12mm tape, 1.0mm max. for 16mm tape and 24mm tape.

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

REV:B

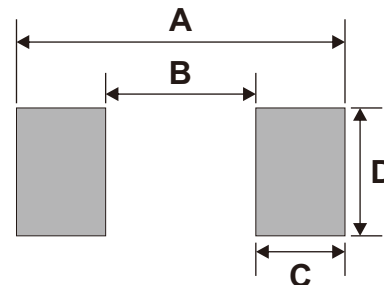
Marking Code

Part Number	Marking Code
CFRB201-G	201
CFRB202-G	202
CFRB203-G	203
CFRB204-G	204
CFRB205-G	205
CFRB206-G	206
CFRB207-G	207



Suggested PAD Layout

SIZE	DO-214AA(SMB)	
	(mm)	(inch)
A	5.60 REF	0.220 REF
B	2.16 MAX	0.085 MAX
C	1.52 MIN	0.060 MIN
D	2.18 MIN	0.086 MIN



Note: 1. The pad layout is for reference purposes only.

Standard Packaging

Case Type	REEL PACK	
	REEL (pcs)	Reel Size (inch)
DO-214AA (SMB)	3,000	13