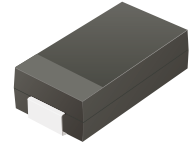


CSFB203-G

Reverse Voltage: 200 Volts

Forward Current: 2.0 Amp

RoHS Device

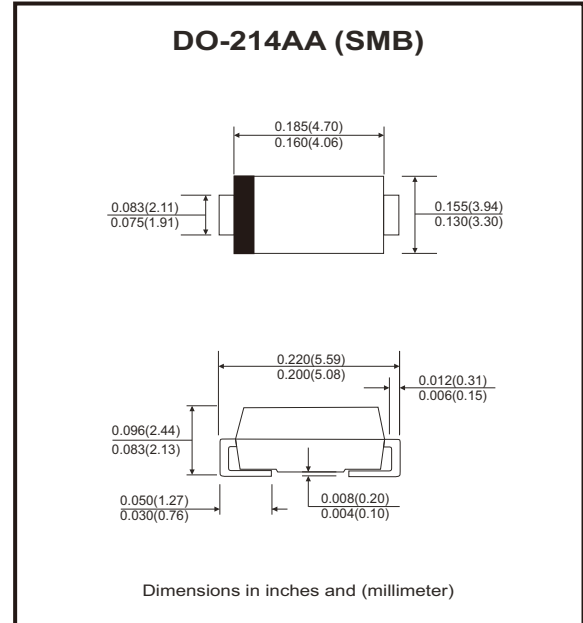


Features

- Ideal for surface mount applications.
- Easy pick and place.
- Plastic package has Underwriters Lab. flammability classification 94V-0.
- Super fast recovery time 35nS.
- Built-in strain relief.
- Low forward voltage drop.

Mechanical data

- Case: JEDEC DO-214AA, molded plastic.
- 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

Parameter	Symbol	CSFB203-G	Units
Max. repetitive peak reverse voltage	V_{RRM}	200	V
Max. DC blocking voltage	V_{DC}	200	V
Max. RMS voltage	V_{RMS}	140	V
Peak surge forward current, 8.3ms single half sine-wave superimposed on rate load (JEDEC method)	I_{FSM}	50	A
Max. average forward current	I_O	2.0	A
Max. instantaneous forward voltage at 2.0A	V_F	0.95	V
Reverse recovery time	T_{rr}	35	nS
Max. DC reverse current at $T_A=25^{\circ}C$ rated DC blocking voltage $T_A=125^{\circ}C$	I_R	5.0 350	μA
Max. thermal resistance (Note 1)	$R_{\theta JL}$	20	$^{\circ}C/W$
Max. operating junction temperature	T_J	150	$^{\circ}C$
Storage temperature range	T_{STG}	-55 to +150	$^{\circ}C$

Notes: 1. Thermal resistance from junction to lead mounted on P.C.B. with 8.0×8.0 mm copper pad area.

Rating and Characteristic Curves (CSFB203-G)

Fig.1 - Reverse Characteristics

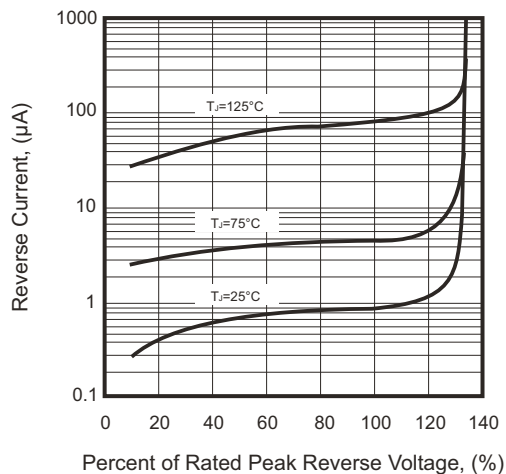


Fig.2 - Forward Characteristics

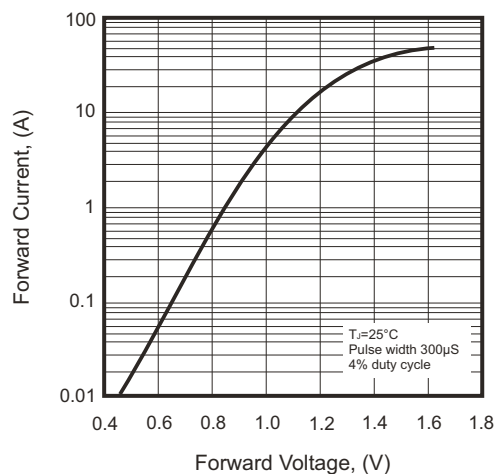


Fig.3 - Junction Capacitance

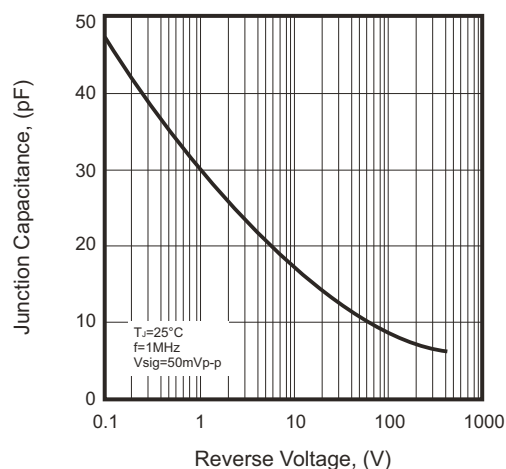


Fig.4 - Non-Repetitive Forward Surge Current

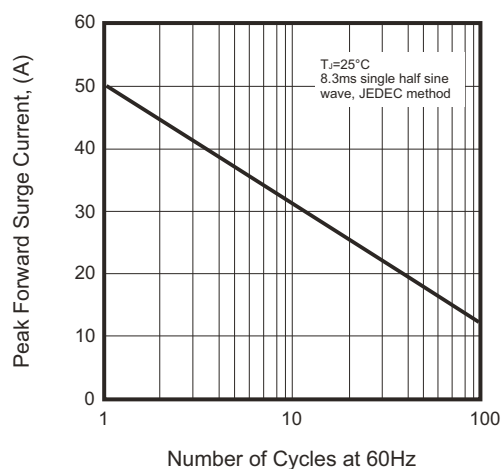


Fig.5- Test Circuit Diagram and Reverse Recovery Time Characteristics

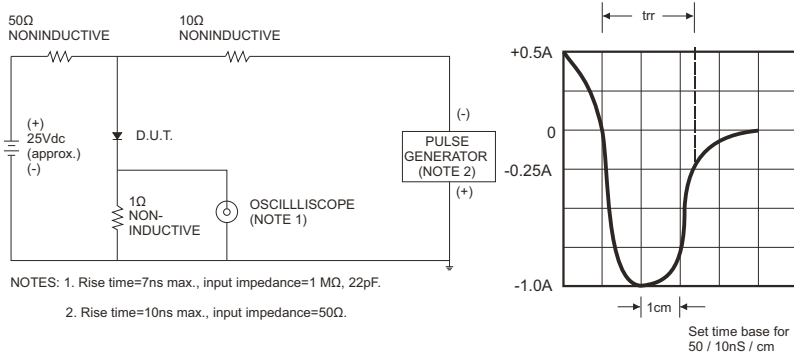
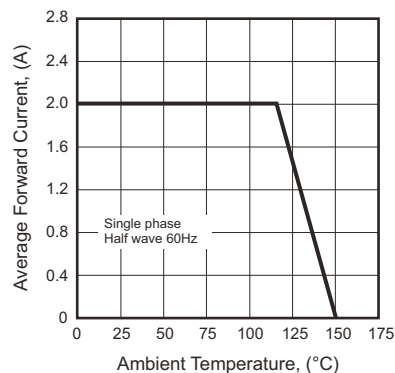
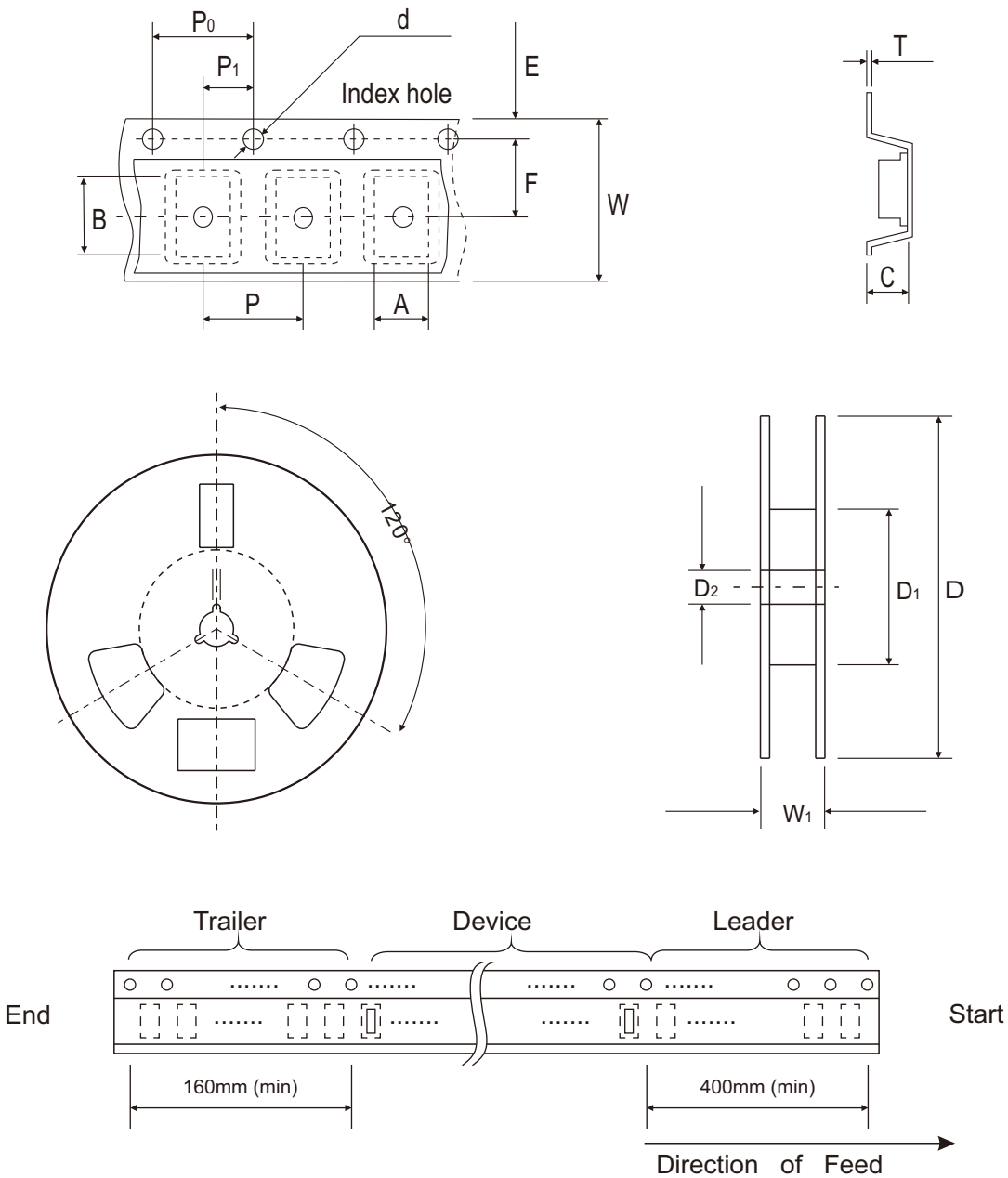


Fig.6 - Current Derating Curve



Reel Taping Specification

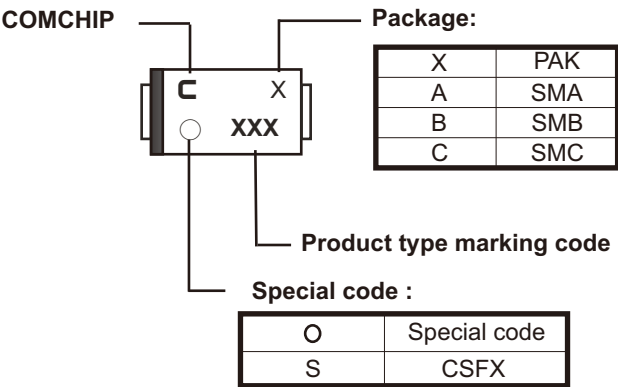


	SYMBOL	A	B	C	d	D	D1	D2
DO-214AA(SMB)	(mm)	4.00 MAX.	5.90 MAX.	3.00 MAX.	$1.50 \pm 0.10_{DIA}$	330 ± 2.00	50.0 MIN.	13.50 ± 1.0
	(inch)	0.157 MAX.	0.232 MAX.	0.118 MAX.	$0.059 \pm 0.004_{DIA}$	12.99 ± 0.079	1.969 MIN.	0.531 ± 0.039

	SYMBOL	E	F	P	P0	P1	T	W	W1
DO-214AA(SMB)	(mm)	1.75 ± 0.10	5.50 ± 0.05	8.00 ± 0.10	4.00 ± 0.10	2.00 ± 0.05	0.60 MAX	12.0 ± 0.30	18.4 MAX.
	(inch)	0.0699 ± 0.004	0.217 ± 0.002	0.315 ± 0.004	0.157 ± 0.004	0.079 ± 0.004	0.236 ± 0.004	0.472 ± 0.012	0.724 MAX

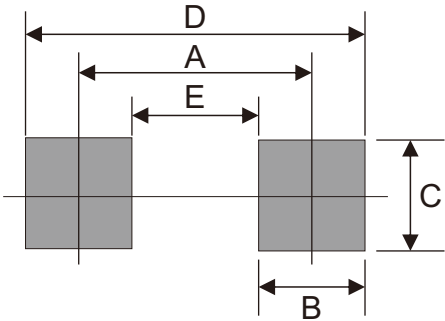
Marking Code

Part Number	Marking Code
CSFB203-G	203



Suggested P.C.B. PAD Layout

SIZE	SMB	
	(mm)	(inch)
A	4.30	0.169
B	2.50	0.098
C	2.30	0.091
D	6.80	0.268
E	1.80	0.071



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