



Chipsmall Limited consists of a professional team with an average of over 10 year of expertise in the distribution of electronic components. Based in Hongkong, we have already established firm and mutual-benefit business relationships with customers from,Europe,America and south Asia,supplying obsolete and hard-to-find components to meet their specific needs.

With the principle of “Quality Parts,Customers Priority,Honest Operation,and Considerate Service”,our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip,ALPS,ROHM,Xilinx,Pulse,ON,Everlight and Freescale. Main products comprise IC,Modules,Potentiometer,IC Socket,Relay,Connector.Our parts cover such applications as commercial,industrial, and automotives areas.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!



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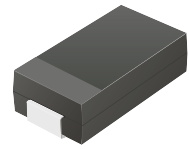


CSFB201-G Thru. CSFB205-G

Reverse Voltage: 50 to 600 Volts

Forward Current: 2.0 Amp

RoHS Device

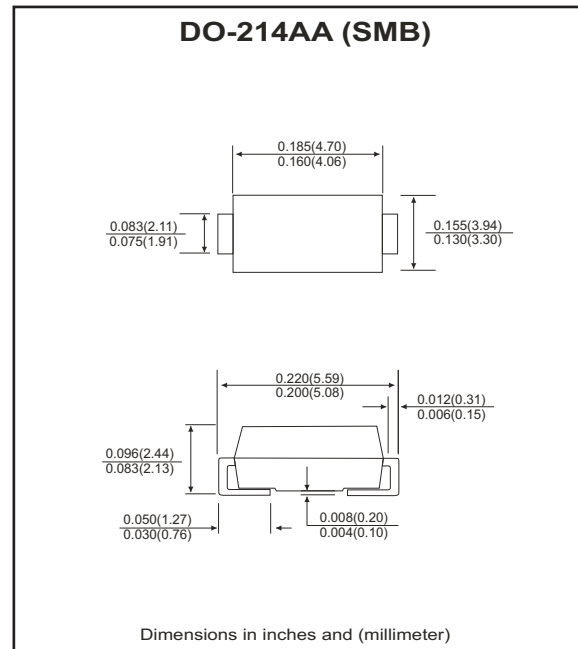


Features

- 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.
- Approx. weight: 0.093 grams



Maximum Ratings and Electrical Characteristics

Parameter	Symbol	CSFB201-G	CSFB202-G	CSFB203-G	CSFB204-G	CSFB205-G	Units
Max. repetitive peak reverse voltage	V_{RRM}	50	100	200	400	600	V
Max. DC blocking voltage	V_{DC}	50	100	200	400	600	V
Max. RMS voltage	V_{RMS}	35	70	140	280	420	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			1.25	1.70	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	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 (CSFB201-G thru CSFB205-G)

Fig.1- Reverse characteristics

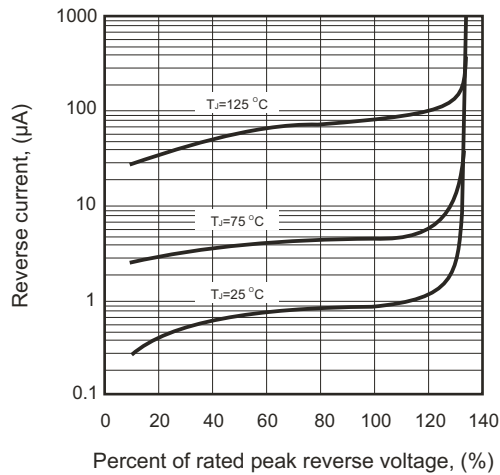


Fig.2- Forward characteristics

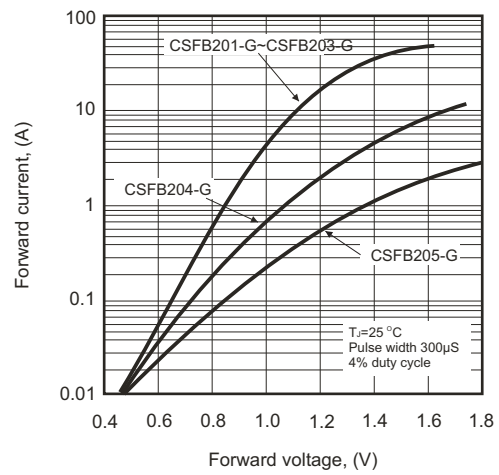


Fig.3- Junction capacitance

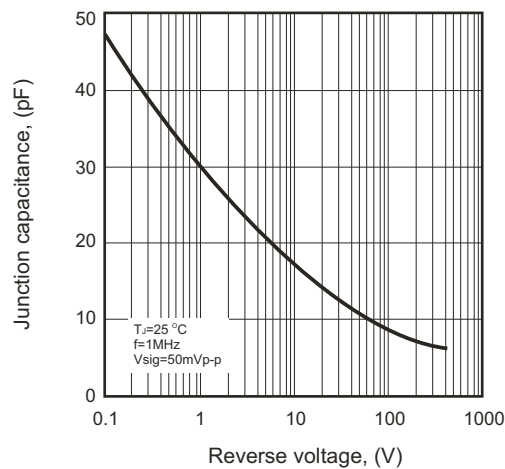


Fig.4- Non-repetitive forward surge current

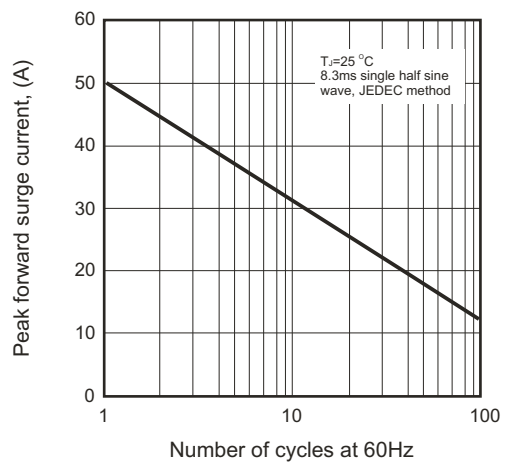


Fig.5- Test circuit diagram and reverse recovery time characteristics

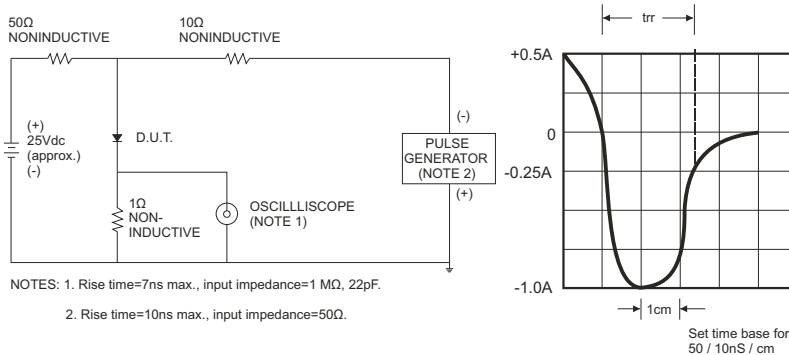
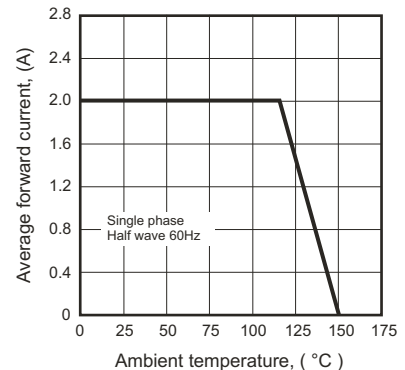
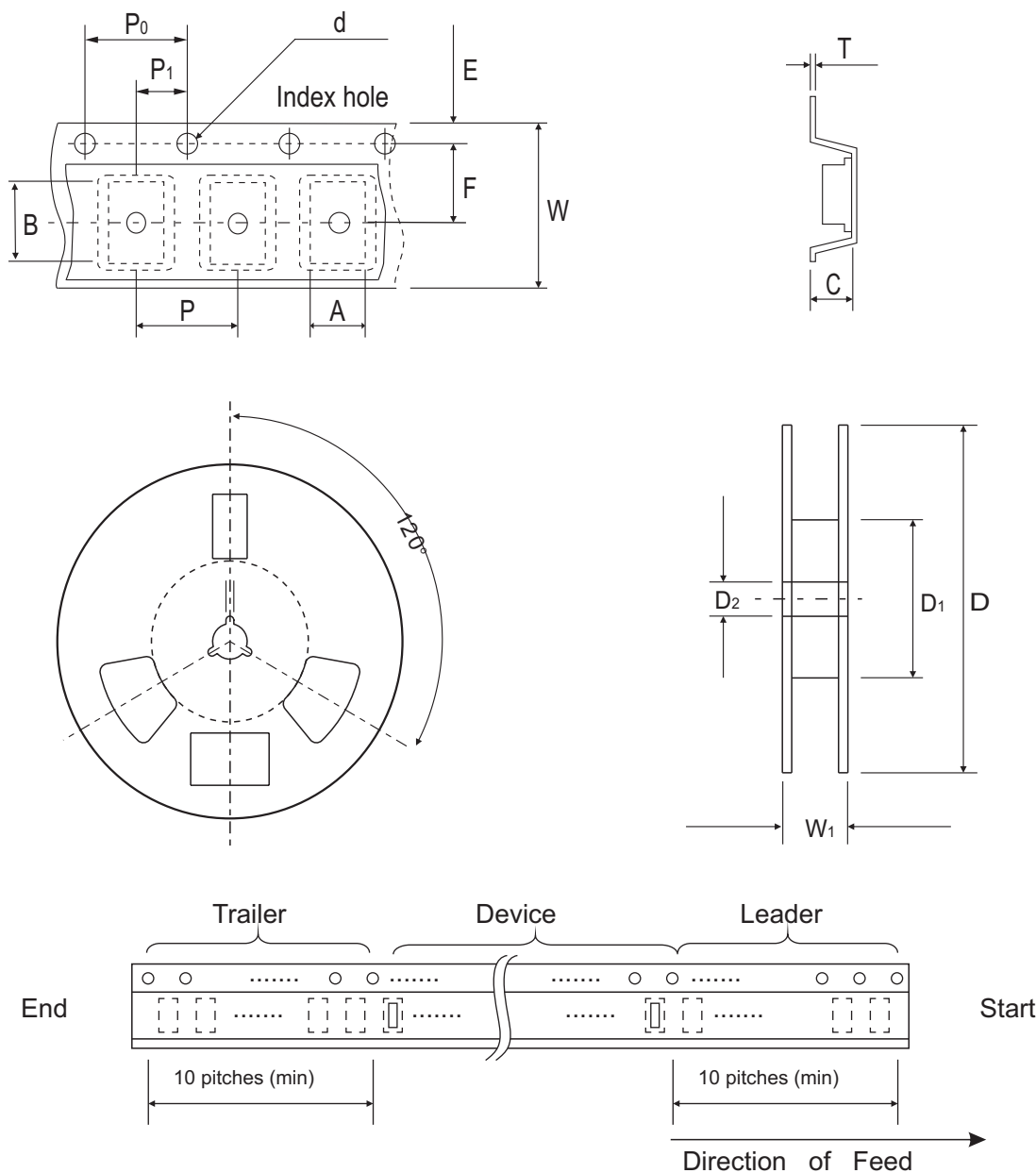


Fig.6- Current derating curve



Reel Taping Specification

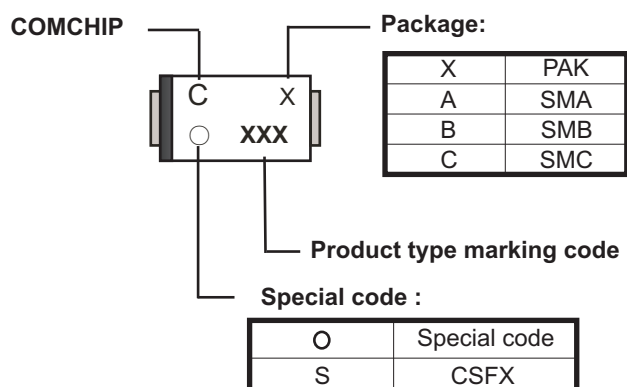


DO-214AA(SMB)	SYMBOL	A	B	C	d	D	D1	D2
	(mm)	4.00 MAX.	5.90 MAX.	3.00 MAX.	1.50 ± 0.10DIA	330 ± 2.00	50.0 MIN.	13.50 ± 1.0
	(inch)	0.157 MAX.	0.232 MAX.	0.118 MAX.	0.059 ± 0.004DIA	12.99 ± 0.079	1.969 MIN.	0.531 ± 0.039

DO-214AA(SMB)	SYMBOL	E	F	P	P0	P1	T	W	W1
	(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

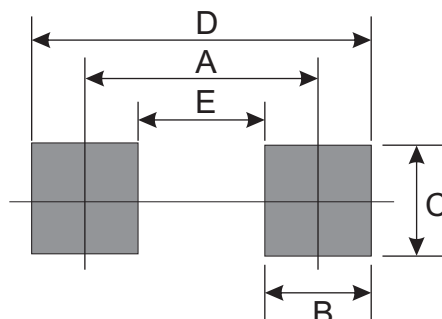
Marking Code

Part Number	Marking Code
CSFB201-G	201
CSFB202-G	202
CSFB203-G	203
CSFB204-G	204
CSFB205-G	205



Suggested 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



Standard Packaging

Case Type	Qty Per Reel	Reel Size
	(Pcs)	(inch)
DO-214AA(SMB)	3,000	13