



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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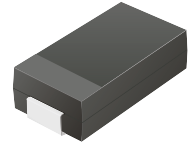


## CSFC301-G Thru. CSFC305-G

Reverse Voltage: 50 to 600 Volts

Forward Current: 3.0 Amp

RoHS Device

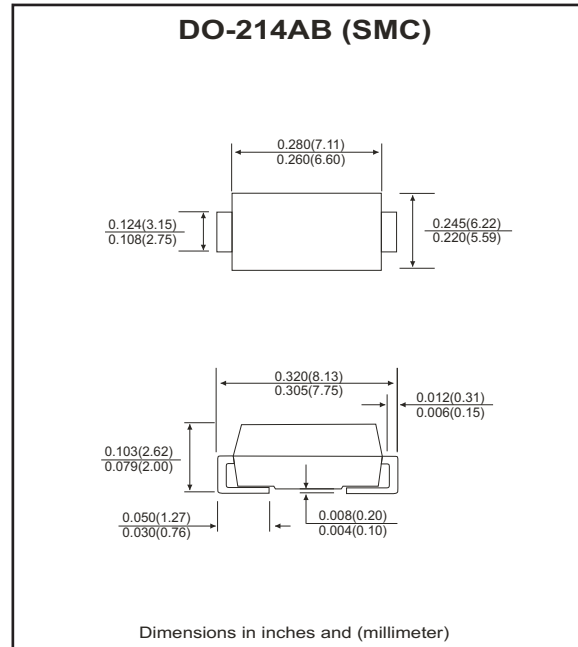


### Features

- 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-214AC, molded plastic.
- Terminals: solderable per MIL-STD-750, method 2026.
- Polarity: Color band denotes cathode end.
- Approx. weight: 0.21 grams



### Maximum Ratings and Electrical Characteristics

Parameter	Symbol	CSFC301-G	CSFC302-G	CSFC303-G	CSFC304-G	CSFC305-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)	$I_{FSM}$	100					A
Max. average forward current	$I_o$	3.0					A
Max. instantaneous forward voltage at 3.0A	$V_F$	0.95			1.25	1.3	V
Reverse recovery time	$T_{rr}$	35				50	nS
Max. DC reverse current at $T_A=25^{\circ}C$ rated DC blocking voltage $T_A=100^{\circ}C$	$I_R$	5.0 250					$\mu A$
Max. thermal resistance (Note 1)	$R_{\theta JL}$	16					$^{\circ}C/W$
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 8.0x8.0 mm copper pad area.

## RATING AND CHARACTERISTIC CURVES (CSFC301-G thru CSFC305-G)

Fig.1 Reverse Characteristics

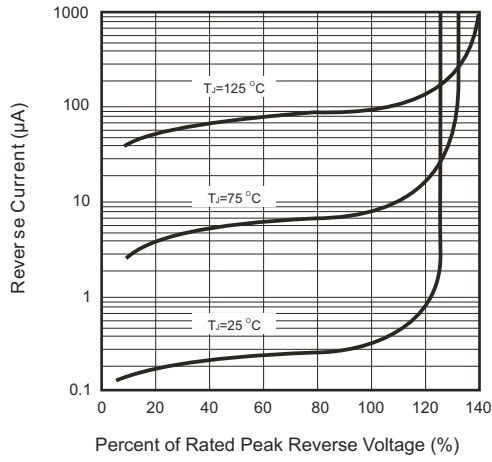


Fig.2 Forward Characteristics

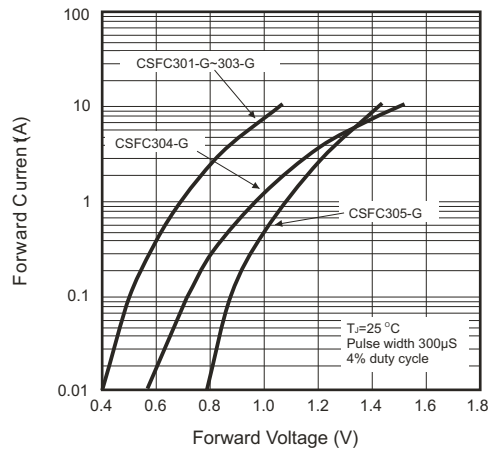


Fig.3 Junction Capacitance

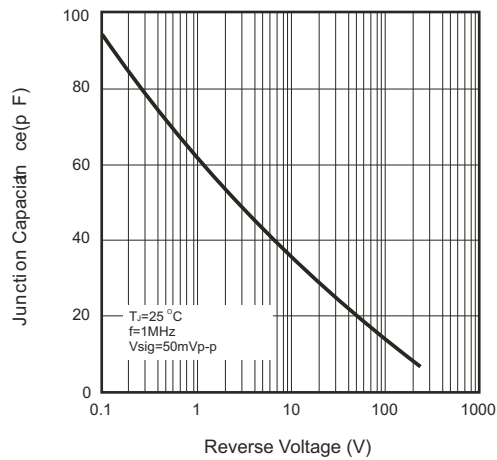


Fig.4 Non-repetitive Forward Surge Current

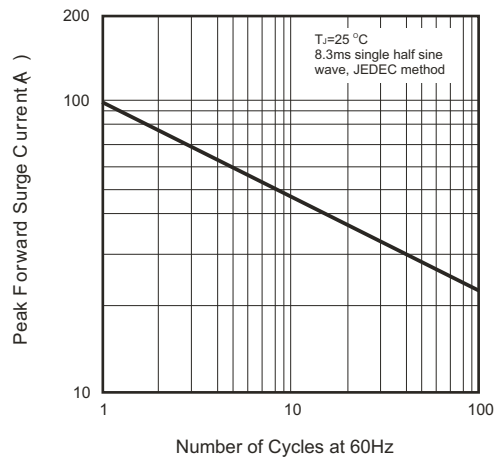


Fig.5 Test Circuit Diagram and Reverse Recovery Time Characteristics

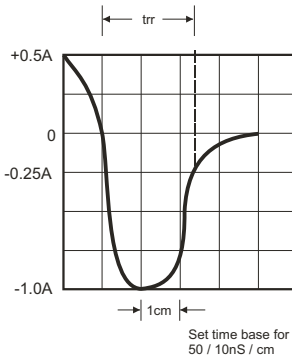
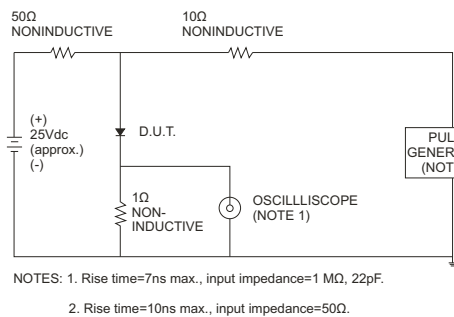


Fig.6 Current Derating Curve

