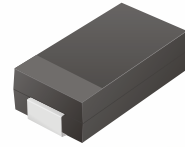


SMD Super Fast Recovery Rectifier

COMCHIP
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CSFB201 Thru CSFB205

Reverse Voltage: 50 - 600 Volts
Forward Current: 2.0 Amp

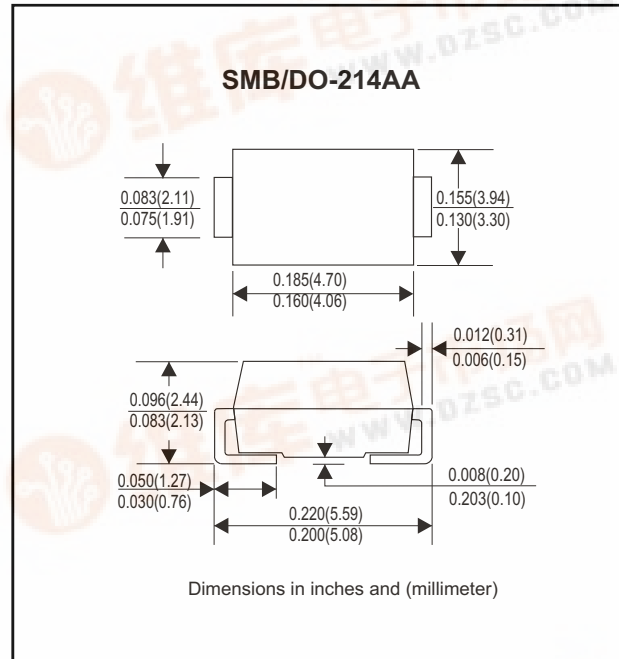


Features

- Ideal for surface mount applications
- Easy pick and place
- Plastic package has Underwriters Lab. flammability classification 94V-0
- Super fast recovery time 35-50 nS
- 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
- Mounting position: Any
- Approx. Weight: 0.093 gram



Maximum Ratings and Electrical Characteristics

Parameter	Symbol	CSFB 201	CSFB 202	CSFB 203	CSFB 204	CSFB 205	Unit
Max. Repetitive PeakReverse Voltage	VRRM	50	100	200	400	600	v
Max. DC BlockingVoltage	VDC	50	100	200	400	600	v
Max. RMS Voltage	VRMS	35	70	140	280	420	v
Peak Surge Forward Current 8.3ms single halfsine-wave superimposed on rateload (JEDEC method)	IFSM	50					A
Max. Average Forward Current	I o	2.0					A
Max. Instantaneous Forward Current at 2.0 A	V F	0.95			1.3	1.5	V
Reverse recovery time	Trr	35				50	nS
Max. DC Reverse Current at Rated DC Blocking Voltage Ta=25℃ Ta=100℃	I R	5.0 100					uA
Max. Thermal Resistance (Note 1)	RθJL	20					℃/W
Operating Junction Temperature	T j	-55 to +150					℃
Storage Temperature	TSTG	-55 to +150					℃

Note 1: Thermal resistance from junction to lead, 8.0x8.0 mm square (0.13 mm thick) land areas.

Rating and Characteristic Curves (CSFB201 Thru CSFB205)

Fig. 1 - Reverse Characteristics

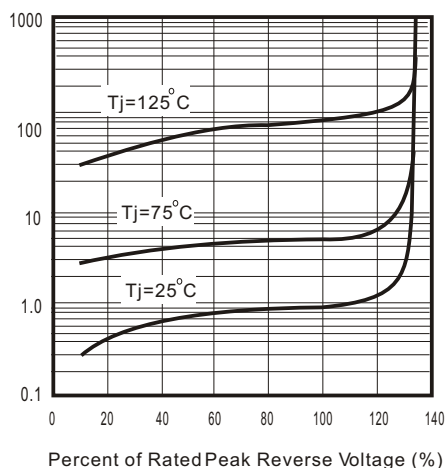


Fig.2 - Forward Characteristics

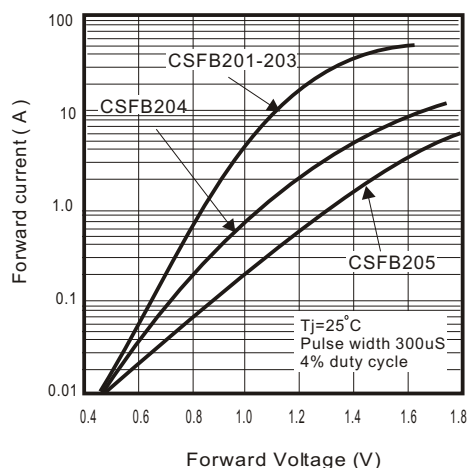


Fig. 3 - Junction Capacitance

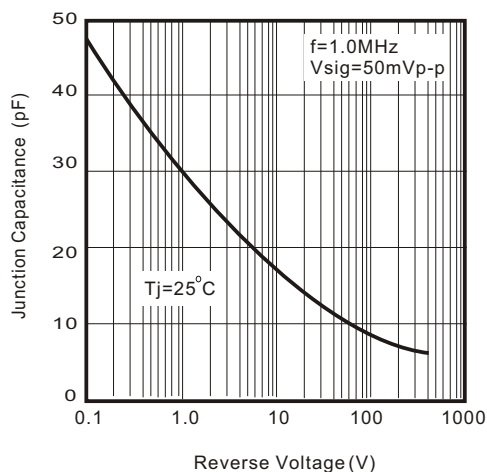


Fig. 4 - Non Repetitive Forward Surge Current

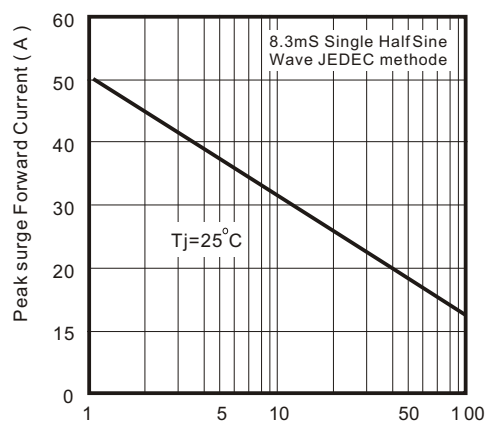


Fig. 5 - Test Circuit Diagram and Reverse Recovery Time Characteristics

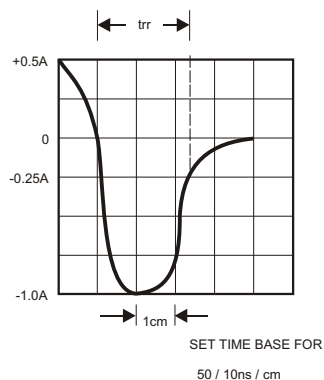
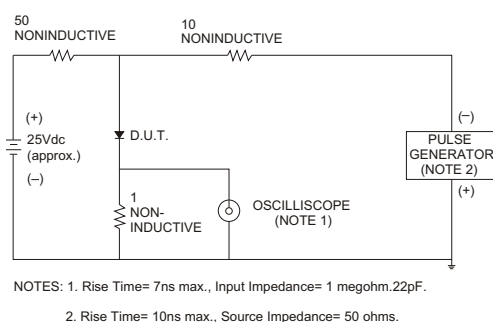


Fig. 6 - Current Derating Curve

