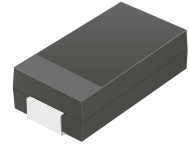


CFRA201-G Thru. CFRA207-G

Reverse Voltage: 50 to 1000 Volts

Forward Current: 2.0 Amp

RoHS Device



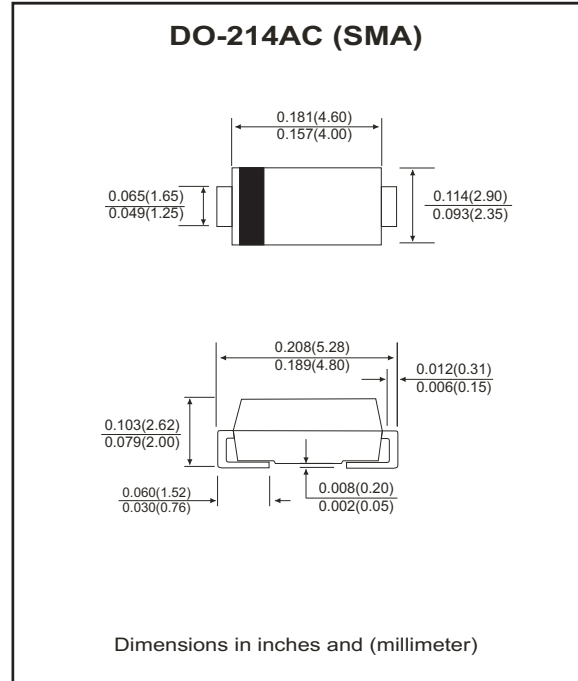
Features

- Fast switching for high efficiency.
- Diffused Junction
- Low reverse leakage current.
- Low forward voltage drop.
- High current capability.
- The plastic material carries UL recognition 94V-0

Mechanical data

- Case: Molded plastic.
- Terminals: Solderable per MIL-STD-750, method 2026.
- Polarity: Color band denotes cathode end.
- Weight: 0.053 grams(Approx).

Circuit diagram



Maximum Ratings and Electrical Characteristics

Rating at 25°C ambient temperature unless otherwise specified.
 Single phase, half wave, 60Hz, resistive or inductive load.
 For capacitive load, derate current by 20%

Parameter	Symbol	CFRA 201-G	CFRA 202-G	CFRA 203-G	CFRA 204-G	CFRA 205-G	CFRA 206-G	CFRA 207-G	Unit
Max. Repetitive peak reverse voltage	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 @ $T_A=75^\circ C$	$I_{(AV)}$	2.0							A
Peak surge forward current, 8.3ms single half sine-wave superimposed on rate load (JEDEC method)	I_{FSM}	60							A
Max. Peak forward voltage at 2.0A DC	V_F	1.3							V
Max. DC reverse current at $T_J=25^\circ C$ rated DC blocking voltage $T_J=100^\circ C$	I_R	5.0 100							μA
Max. Reverse recovery time (Note1)	T_{rr}	150			250	500			nS
Typical junction capacitance (Note2)	C_J	30			20				pF
Typical thermal resistance (Note 3)	$R_{\theta JA}$	25							$^\circ C/W$
Operating temperature range	T_J	-55 to +150							$^\circ C$
Storage temperature range	T_{STG}	-55 to +150							$^\circ C$

Notes: 1. Measured with $I_F=0.5A, I_R=1A, I_{RR}=0.25A$
 2. Measured at 1.0 MHz and applied reverse voltage of 4.0V DC
 3. Thermal resistance junction to ambient.

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

REV:B

RATING AND CHARACTERISTIC CURVES (CFRA201-G thru CFRA207-G)

Fig.1- Forward current derating curve

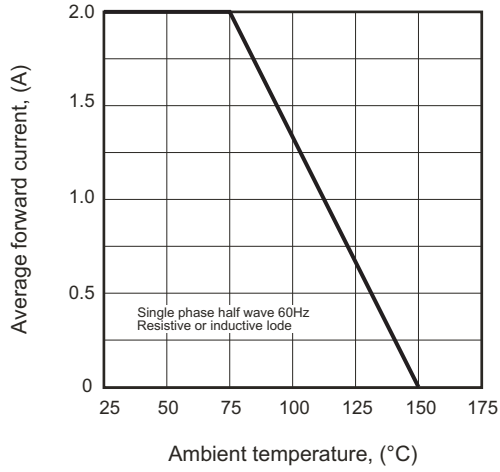


Fig.2- Maximum Non-repetitive Surge Current

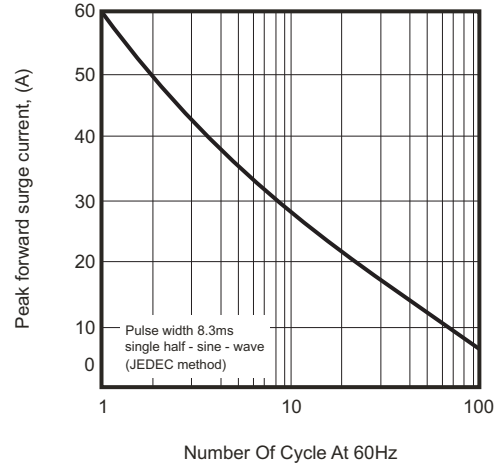


Fig.3- Typical junction capacitance

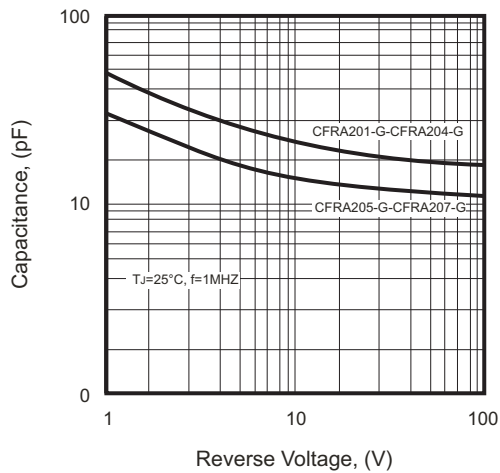
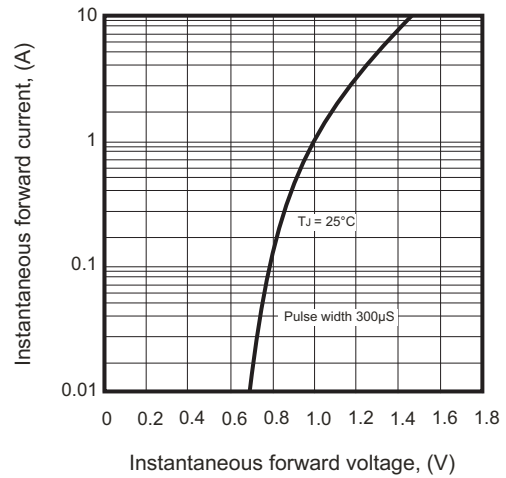
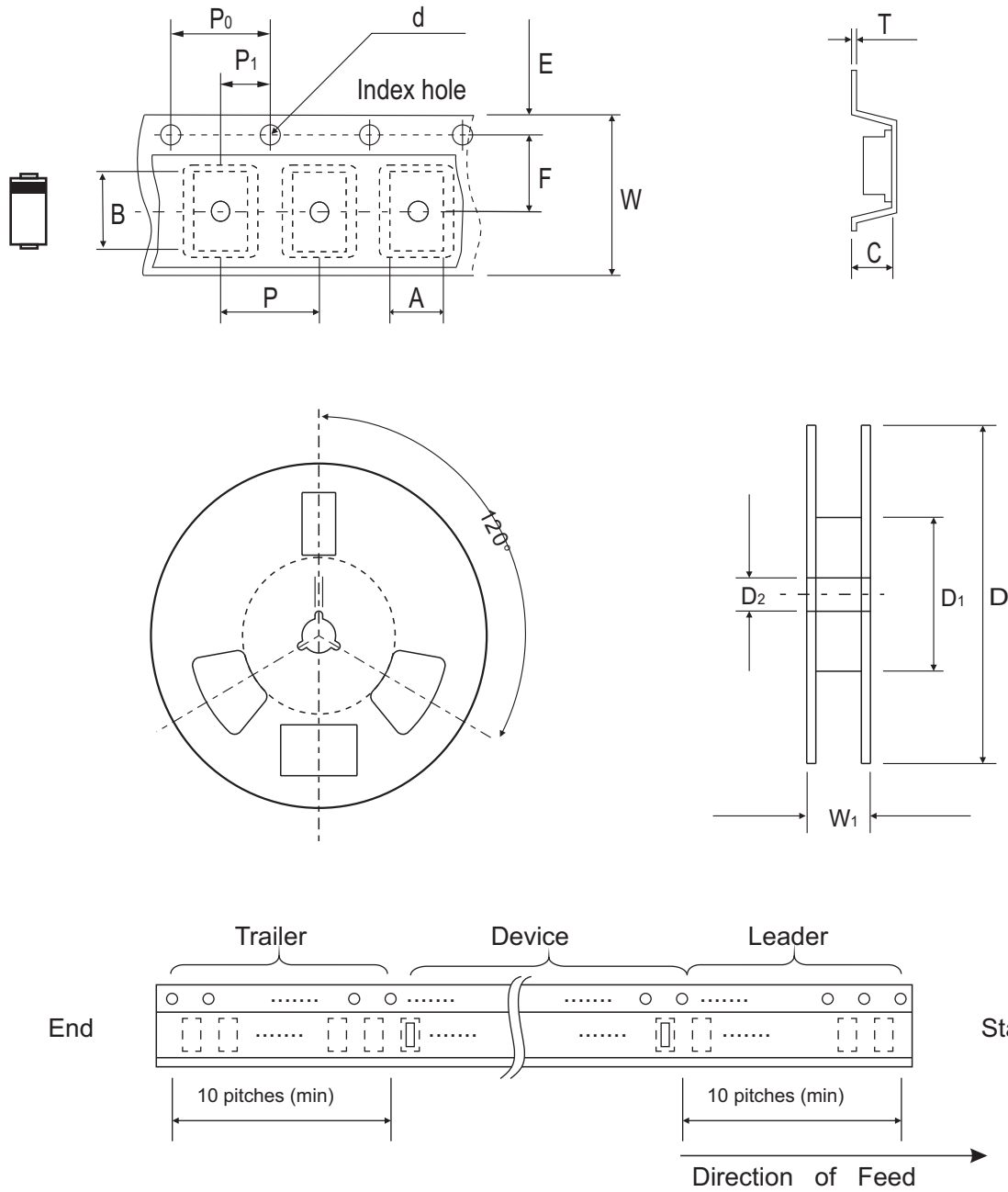


Fig.4- Typical forward characteristics



Reel Taping Specification



DO-214AC (SMA)	SYMBOL	A	B	C	d	D	D1	D2
	(mm)	2.72 ± 0.10	5.25 ± 0.10	2.36 ± 0.10	1.55 ± 0.05	330 ± 2.00	50.0 MIN.	13.00 ± 0.20
	(inch)	0.107 ± 0.004	0.207 ± 0.004	0.093 ± 0.004	0.061 ± 0.002	12.99 ± 0.079	1.969 MIN.	0.512 ± 0.008

DO-214AC (SMA)	SYMBOL	E	F	P	P0	P1	T	W	W1
	(mm)	1.75 ± 0.10	5.50 ± 0.05	4.00 ± 0.10	4.00 ± 0.10	2.00 ± 0.05	0.30 ± 0.010	12.0 ± 0.30	12.4+2.00/-0.00
	(inch)	0.069 ± 0.004	0.217 ± 0.002	0.157 ± 0.004	0.157 ± 0.004	0.079 ± 0.002	0.012 ± 0.004	0.472 ± 0.012	0.488 + 0.079/-0

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

REV:B

Marking Code

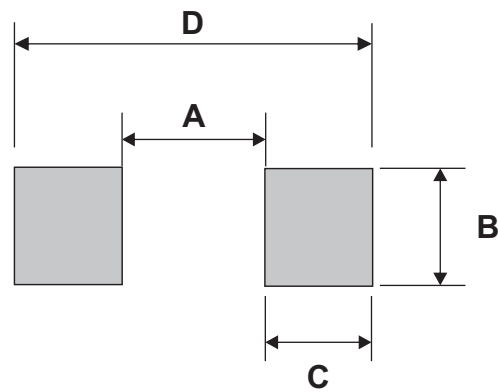
Part Number	Marking Code
CFRA201-G	RS2AA
CFRA202-G	RS2BA
CFRA203-G	RS2DA
CFRA204-G	RS2GA
CFRA205-G	RS2JA
CFRA206-G	RS2KA
CFRA207-G	RS2MA



xxxxx= Product type marking code

Suggested PAD Layout

SIZE	DO-214AC (SMA)	
	(mm)	(inch)
A	2.10MAX	0.085 MAX
B	1.47 MIN	0.058MIN
C	1.27 MIN	0.050 MIN
D	5.49REF	0.215REF



Standard Packaging

Case Type	Qty Per Reel	Reel Size
	(Pcs)	(inch)
DO-214AC(SMA)	5,000	13