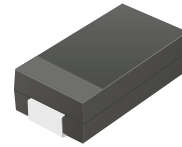


CURA101-G Thru. CURA107-G

Reverse Voltage: 50 to 1000 Volts

Forward Current: 1.0 Amp

RoHS Device

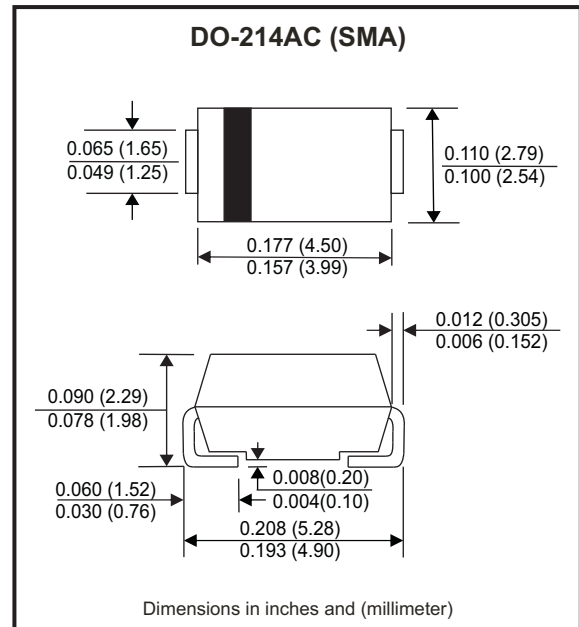


Features

- Ideal for surface mount applications.
- Easy pick and place.
- Plastic package has Underwriters Lab. flammability classification 94V-0.
- Ultra fast recovery time: 50~75nS.
- Low leakage current.

Mechanical data

- Case: JEDEC DO-214AC, molded plastic.
- Terminals: Solderable per MIL-STD-750, method 2026.
- Polarity: Color band denotes cathode end.
- Weight: 0.063 grams(approx.).



Circuit diagram



Maximum Ratings and Electrical Characteristics

Parameter		Symbol	CURA 101-G	CURA 102-G	CURA 103-G	CURA 104-G	CURA 105-G	CURA 106-G	CURA 107-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
Peak surge forward current, 8.3ms single half sine-wave superimposed on rate load (JEDEC method)		I _{FSM}	30							A
Max. Average forward current		I _o	1.0							A
Max. Instantaneous forward voltage at 1.0A		V _F	1.0			1.3	1.7			V
Reverse recovery time (Note 2)		T _{rr}	50				75			nS
Max. DC reverse current at rated DC blocking voltage	T _c =25°C	I _R	5							μA
	T _c =100°C		100							
Typical Junction capacitance (Note1)		C _J	20							nS
Max. Thermal resistance (Note3)		R _{θJA}	80							°C/W
Max. Operating junction temperature		T _J	-55 to +150							°C
Storage temperature range		T _{STG}	-55 to +150							°C

Notes: 1. Measured at 1.0MHZ and applied reverse voltage of 4.0V DC.

2. Measured with $I_F=0.5A$, $I_R=1A$, $I_{RR}=0.25A$

3. Thermal resistance from junction to ambient.

4. Device mounted on FR-4 substrate, 1"x1", 2oz, single-sided, PC boards with 0.1"x0.15" copper pad.

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

RATING AND CHARACTERISTIC CURVES (CURA101-G thru CURA107-G)

Fig.1 - Typical Reverse Characteristics

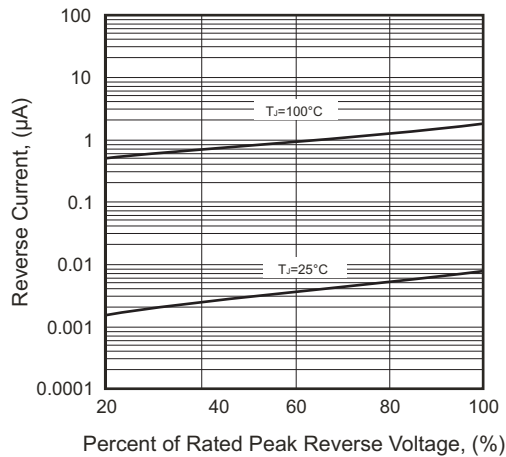


Fig.2 - Typical Forward Characteristics

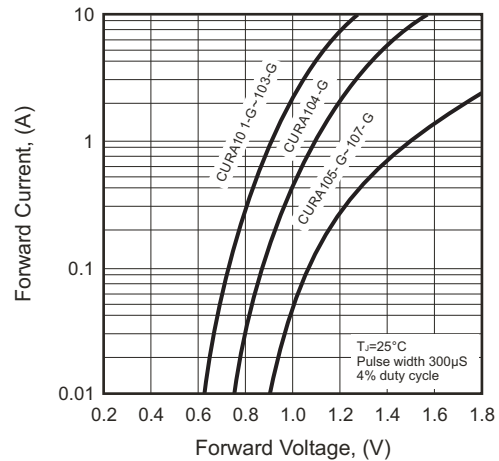


Fig.3 - Typical Junction Capacitance

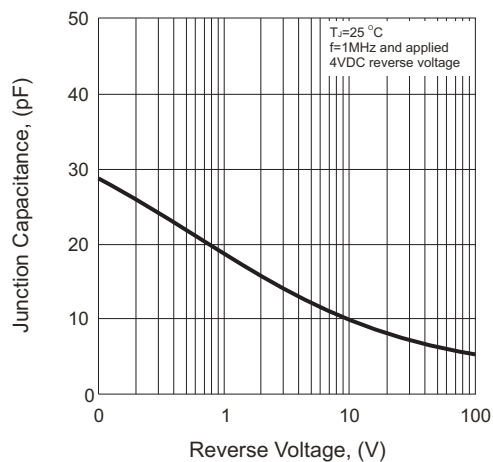


Fig.4 - Typical Non-repetitive Forward Surge Current

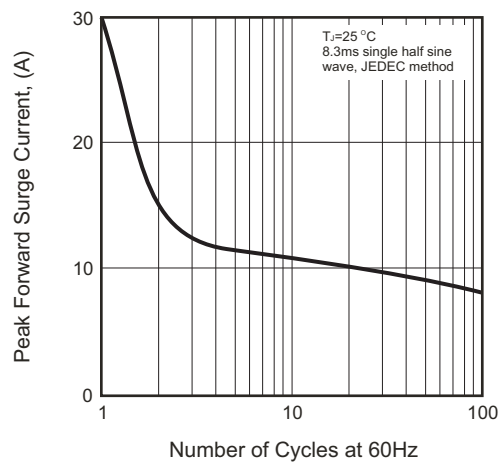


Fig.5 - Test Circuit Diagram and Reverse Recovery Time Characteristics

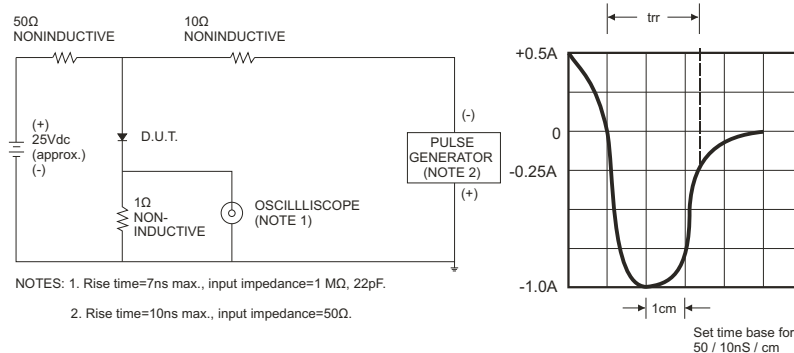
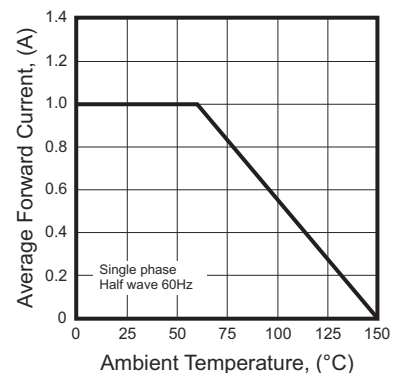
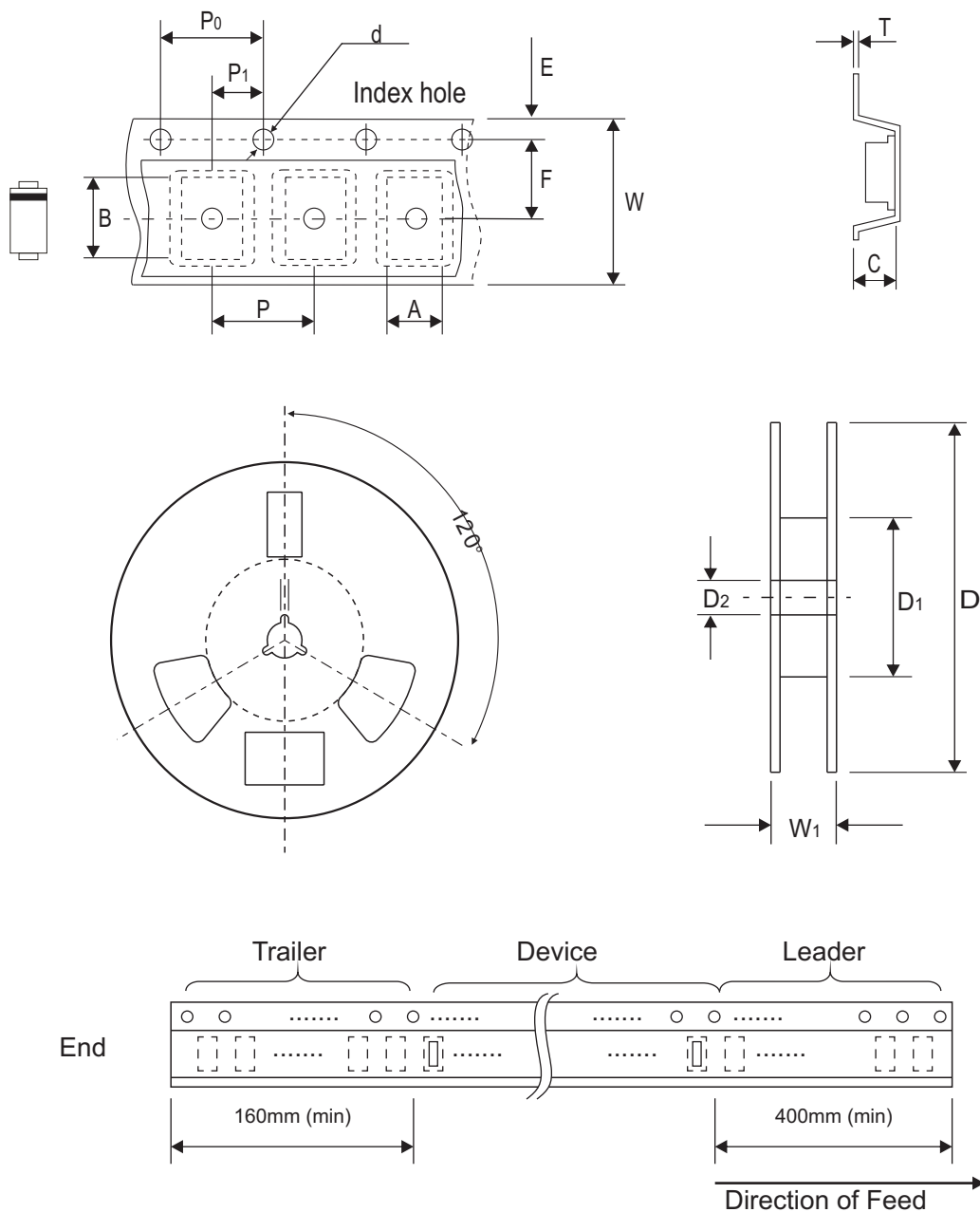


Fig.6 - Current Derating Curve



Reel Taping Specification

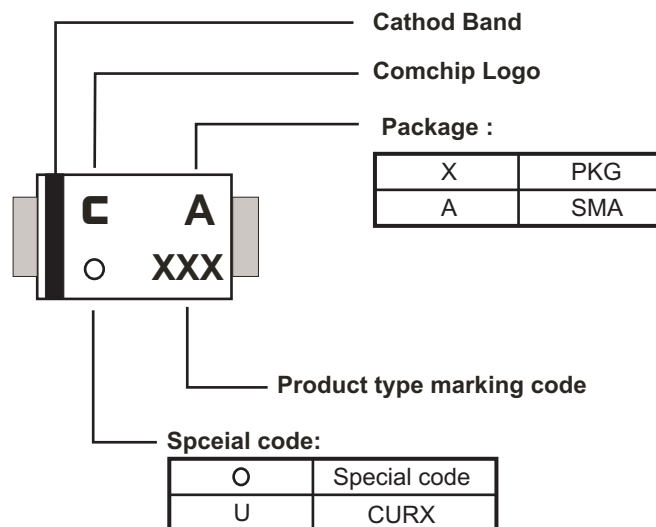


DO-214AC (SMA)	SYMBOL	A	B	C	d	D	D ₁	D ₂
	(mm)	2.90 MAX.	5.90 MAX.	2.66 MAX.	1.50 ± 0.10	330 ± 2.00	50 MIN.	13.50 ± 1.00
	(inch)	0.114 MAX.	0.232 MAX.	0.105 MAX.	0.059 ± 0.004	13.00 ± 0.079	1.969 MIN.	0.531 ± 0.039

DO-214AC (SMA)	SYMBOL	E	F	P	P ₀	P ₁	W	W ₁
	(mm)	1.75 ± 0.10	5.50 ± 0.05	4.00 ± 0.10	4.00 ± 0.10	2.00 ± 0.05	12.00 ± 0.30	18.40 MAX.
	(inch)	0.069 ± 0.004	0.217 ± 0.002	0.157 ± 0.004	0.157 ± 0.004	0.079 ± 0.002	0.472 ± 0.012	0.724 MAX.

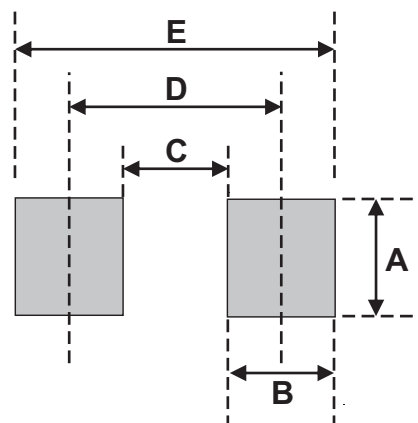
Marking Code

Part Number	Marking Code
CURA101-G	101
CURA102-G	102
CURA103-G	103
CURA104-G	104
CURA105-G	105
CURA106-G	106
CURA107-G	107



Suggested PAD Layout

SIZE	DO-214AC (SMA)	
	(mm)	(inch)
A	1.70	0.067
B	2.50	0.098
C	1.50	0.059
D	4.00	0.157
E	6.50	0.256



Note:

1.The pad layout is for reference purposes only.

Standard Packaging

Case Type	REEL PACK	
	REEL (pcs)	Reel Size (inch)
DO-214AC (SMA)	5,000	13