

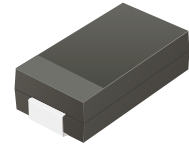
ACGRAS1Y-HF

Reverse Voltage: 2000 V

Forward Current: 1.0 A

RoHS Device

Halogen Free

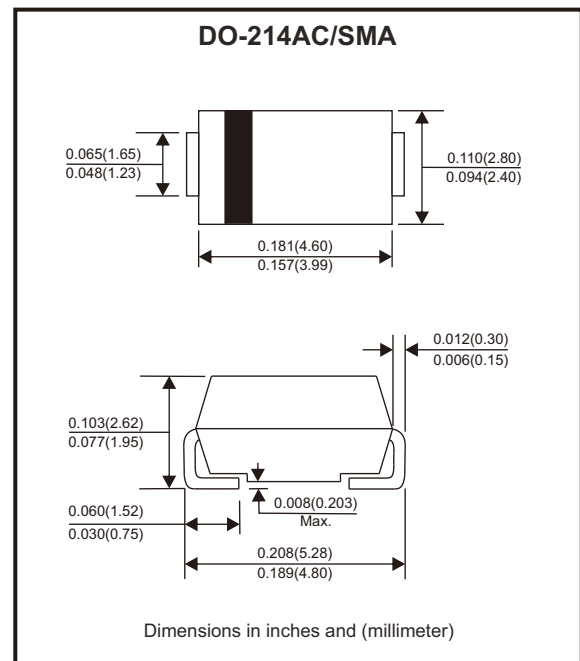


Features

- Glass passivation junction.
- High current capability.
- High surge current capability.
- Low reverse current.
- AEC-Q101 Qualified.

Mechanical data

- Case: DO-214AC/SMA.
- Case material: Molded plastic. UL flammability classification rating 94V-0.
- Terminals: Lead free plating (Tin Finish) solderable per MIL-STD-202, method 208.
- Polarity: Cathode band.



Circuit Diagram



Maximum Rating and Electrical Characteristics (at TA=25°C unless otherwise noted)

Parameter	Symbol	ACGRAS1Y-HF	Unit
Max. repetitive peak reverse voltage	V _{RRM}	2000	V
Max. RMS voltage	V _{RMS}	1400	V
Max. DC blocking voltage	V _{DC}	2000	V
Max. average forward rectified current	I _F	1	A
Peak forward surge current, 8.3ms single half sine-wave superimposed on rated load	I _{FSM}	30	A
Max. Instantaneous forward voltage I _F =1A @25°C	V _F	1.3	V
Max. DC reverse current @ TA=25°C at rated DC blocking voltage @ TA=100°C	I _R	5 100	μA
Typical junction capacitance (Note 1)	C _j	4	pF
Typical thermal resistance	R _{θJC}	70	°C/W
Operating temperature range	T _J	-55 to +150	°C
Storage temperature range	T _{STG}	-55 to +150	°C

Notes: 1. Measured at 1MHz and applied reverse voltage of 4V DC.

Rating and Characteristic Curves (ACGRAS1Y-HF)

Fig.1 - Typical Forward Current Derating Curve

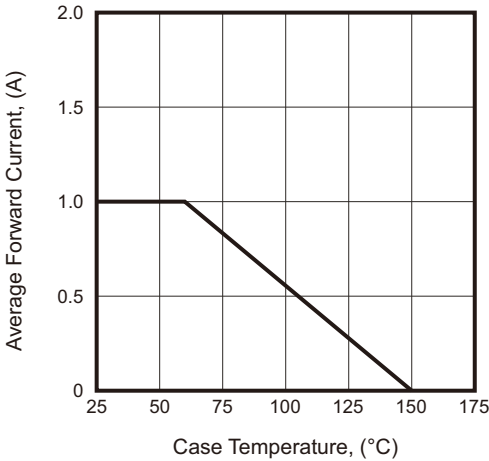


Fig.2 - Typical Forward Characteristics

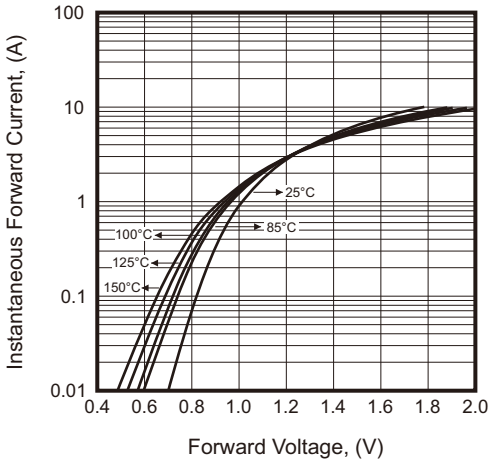


Fig.3 - Maximum Non-Repetitive Forward Surge Current

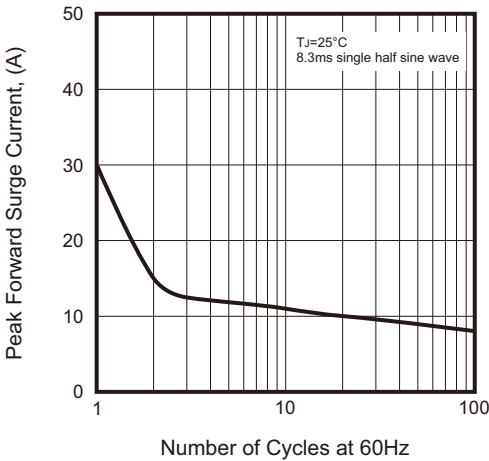


Fig.4 - Typical Reverse Characteristics

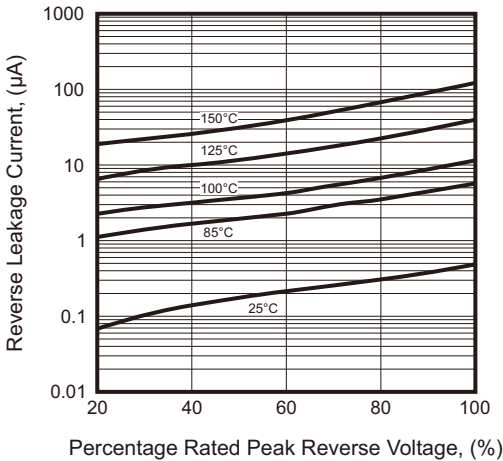
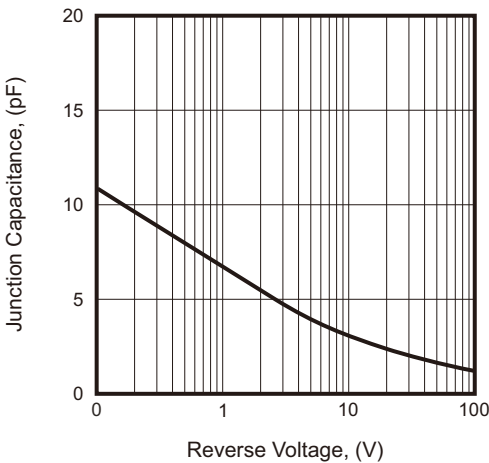
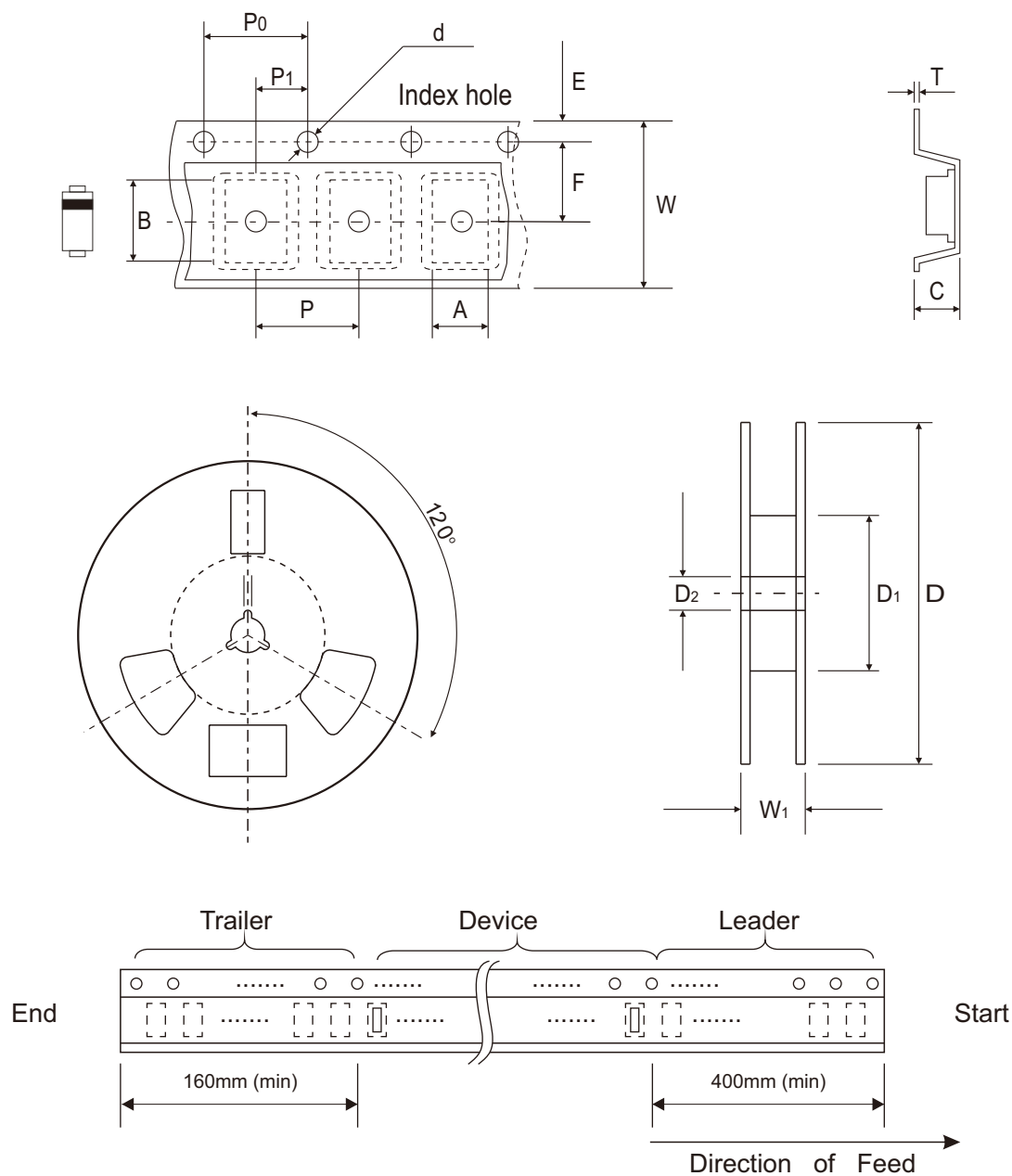


Fig.5 - Typical Junction Capacitance



Reel Taping Specification



SMA (DO-214AC)	SYMBOL	A	B	C	d	D	D1	D2
	(mm)	2.90 Max	5.90 Max	2.66 Max	1.50 ± 0.10	330.00 ± 2.00	50.00 Min	13.50 ± 1.00
	(inch)	0.114 Max	0.232 Max	0.105 Max	0.059 ± 0.004	12.992 ± 0.079	1.969 Min	0.531 ± 0.039

SMA (DO-214AC)	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	0.60 Max	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	0.024 Max	0.472 ± 0.012	0.724 Max

Marking Code

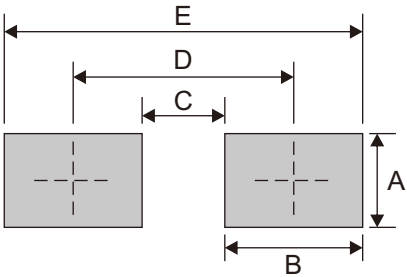
Part Number	Marking Code
ACGRAS1Y-HF	S1Y



┃ : Cathode Band

Suggested P.C.B. 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



Standard Packaging

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