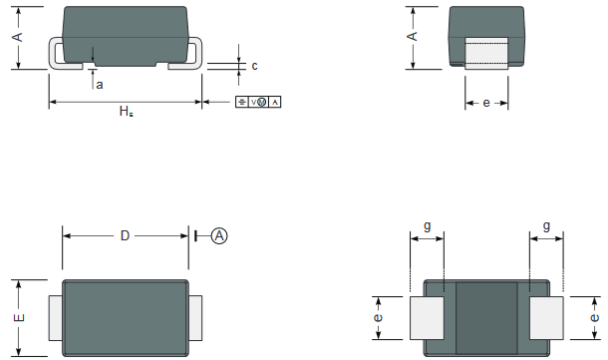


SMD Rectifier Diode

Primary characteristics		
Parameter	Value	Unit
Maximum Repetitive Peak Reverse Voltage	1600	V
Maximum Average Forward Rectified Current	2.0	A

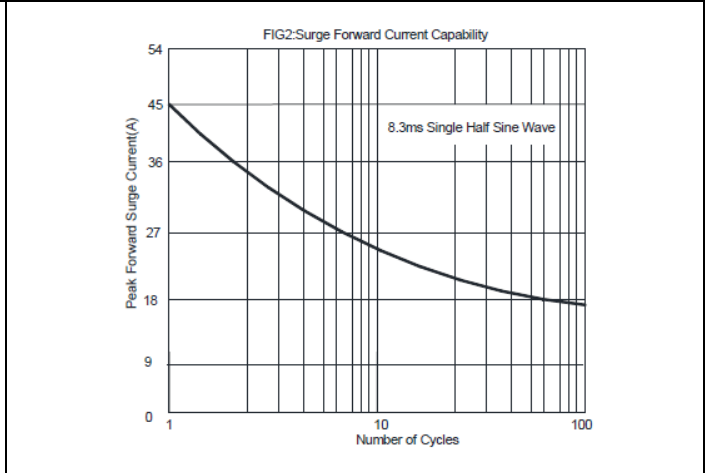
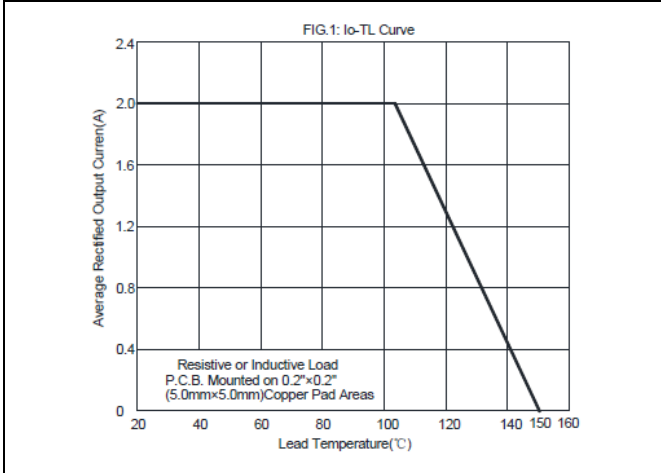
Features

- **SMA (DO-214AC)** case for easy automatic insertion.
- Pb-free and **RoHS** compliant
- Glass passivated chip junction
- High forward surge capability

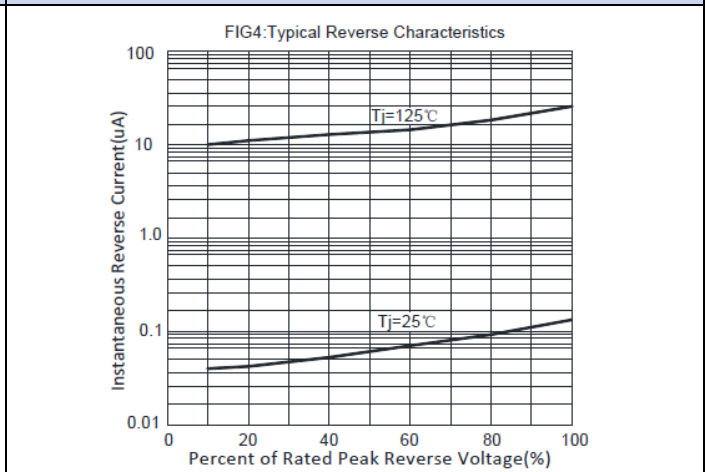
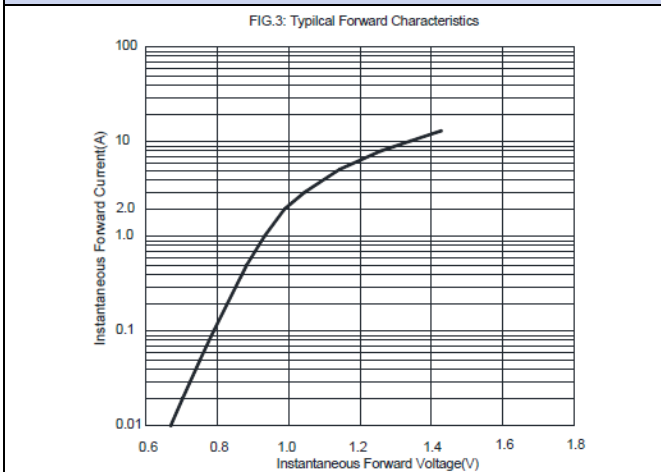
Case dimensions								
								
SMA (DO-214AC)								
Unit	A	D	E	H _E	c	e	g	a
mm	2.05 ±0.15	4.25 ±0.25	2.5 ±0.2	4.95 ±0.25	0.23 ±0.08	1.45 ±0.15	1.2 ±0.3	0.3

Absolute maximum ratings and general electrical characteristics (T _a = 25°C)			
Parameter	Symbol	Value	Unit
Maximum repetitive peak reverse voltage	V _{RRM}	1600	V
Maximum RMS voltage	V _{RMS}	1120	
Maximum DC blocking voltage	V _{DC}	1600	
Maximum average forward rectified current	I _{F(AV)}	2.0	A
Peak forward surge current @60Hz Half-sine wave, 1 cycle, T _j =25°C	I _{FSM}	45	
Maximum instantaneous forward voltage @2.0A	V _{FM}	1.15	V
Maximum reverse current at rated DC blocking voltage	I _{RM}	T _a =25°C	5
		T _a =125°C	100
Maximum reverse recovery time I _F =0.5A, I _R =1.0A, I _{rr} =0.25A	T _{rr}	4	µs
Typical junction capacitance V _R =4.0V, f=1.0MHz	C _j	9.5	pF
Typical thermal resistance Mounted on PCB with 8.0mm ² land area	R _{θJL}	20	°C/W
Operating junction and storage temperature range	T _j , T _{STG}	-55 ~ 150	°C

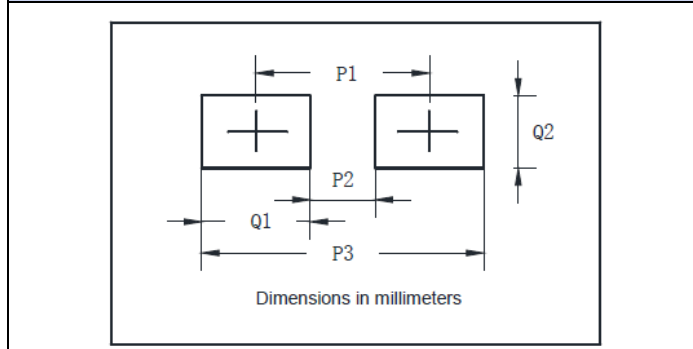
I_o-TL Curve **Surge Forward Current Capability**



Typical Forward Characteristics **Typical reverse characteristics**



Suggested soldering pad layout



SMA (DO-214AC)

Ordering information				
Part Number	Package	Package code	Shipping Quantity	Dimensions
GS2YA	SMA (DO-214AC)	F1	5000 pcs / reel [13"]	---
		F2	7500 pcs / reel [13"]	---
		F3	7500 pcs / reel [13"]	---
		F4	1800 pcs / reel [7"]	---
		F5	2000 pcs / reel [7"]	---
		F6	5000 pcs / reel [13"]	---

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