

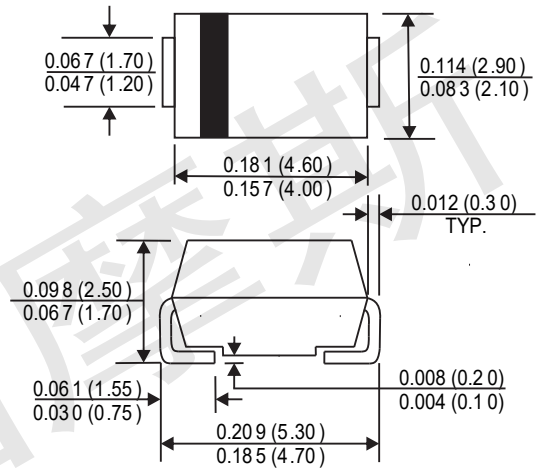
FEATURES

- For surface mounted applications
- Low profile package
- Built-in strain relief
- Easy pick and place
- Fast Recovery times for high efficiency
- Plastic package has Underwriters Laboratory
- Flammability Classification 94V-O
- High temperature soldering : 260°C /10 seconds at terminals

MECHANICAL DATA

- Case: Molded plastic, SMA and DO-214AC
- Terminals: Solder Plated, Solderable per MIL-STD-750, Method 2026
- Polarity: Cathode Band or Cathode Notch
- Marking: Type Number

SMA(DO-214AC)



Maximum Ratings and Electrical Characteristics

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

Type Number or marks	Symbols	BYG23T	Unit
Maximum Recurrent Peak Reverse Voltage	VRRM	1300	Volts
Maximum RMS Voltage	VRMS	910	Volts
Maximum DC Blocking Voltage	VDC	1300	Volts
Maximum Average Forward Rectified Current. Lead Length @Ta(Fig 1)	I(AV)	1.0	Amp
Peak Forward Surge Current,8.3ms single half-sine-wave superimposed on rated load (JEDEC method)	IFSM	25	Amp
Maximum Forward Voltage at 1.0A	VF	1.9	Volts
Maximum DC reverse current at rated DC blocking voltage per $T_j=25^{\circ}\text{C}$ $T_j=100^{\circ}\text{C}$	IR	5.0 1	uAmp
Typical Thermal Resistance	R θ JA	60	°C/W
Typical Junction capacitance (Note2)	CJ	20	pF
Maximum Thermal Resistance (Note1)	TRR	75	nS
Operating Temperature Range	TJ	-55 to +150	°C
Storage Temperature Range	TSTG	-55 to +150	°C

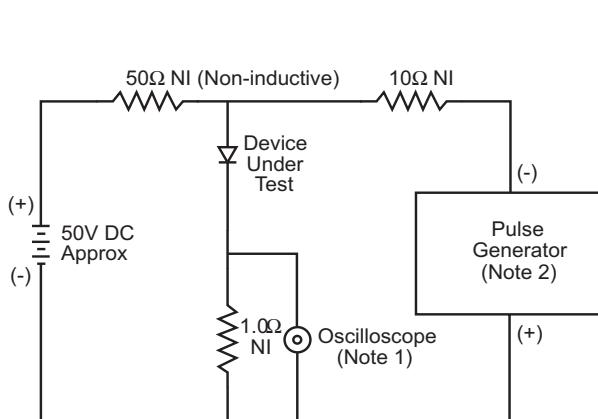
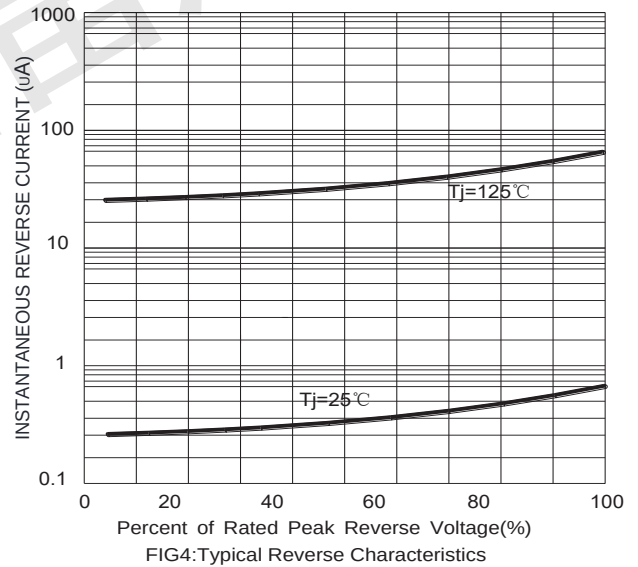
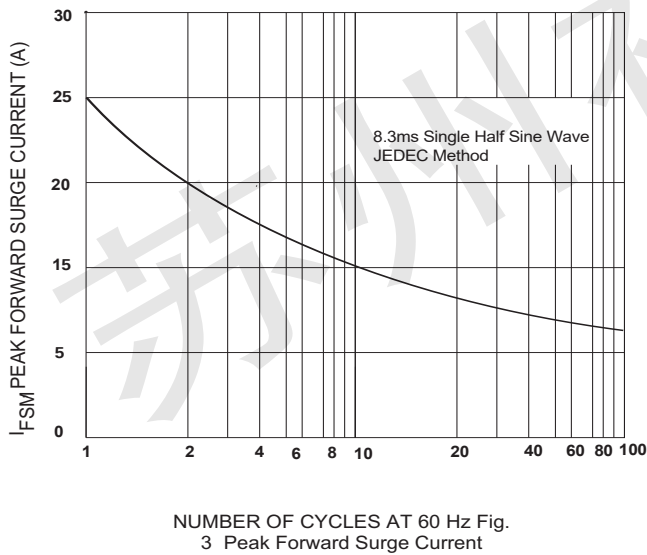
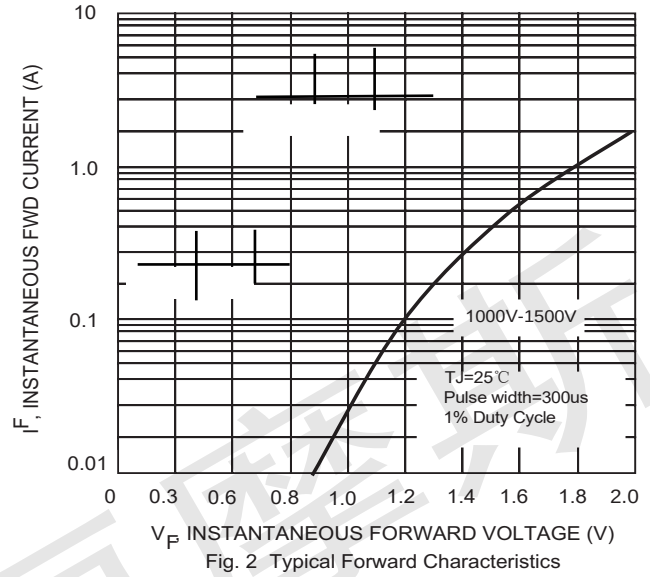
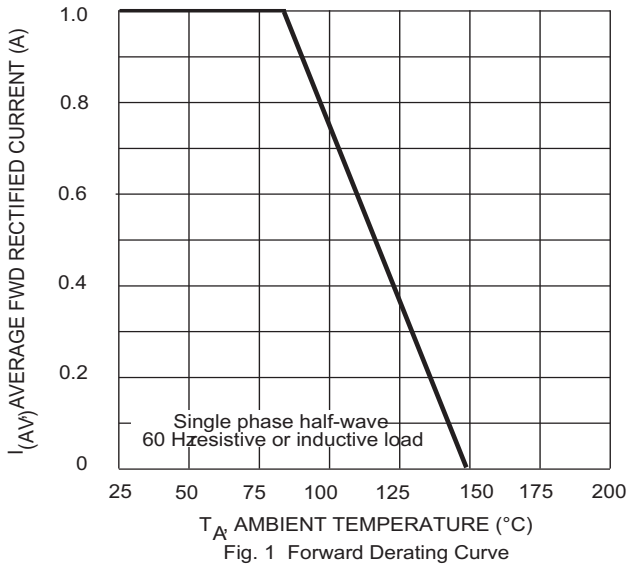
NOTES:

1. Measured with $I_F=0.5\text{A}$, $I_R=1\text{A}$, $I_{RR}=0.25\text{A}$.
2. Measured at 1.0 MHz and applied reverse voltage of 4.0 V DC.
3. Unit mounted on 16 mm*16 mm*1.6 mm 1oz/ft² glass epoxy PCB board, pad per pin with 2*2mm solder pad areas
4. Thermal resistance junction to case, lead and ambient in accordance with JESD-51.

※This product The above data sheet typical data meet the Mentioned standards, designers for reference only

Ordering Information (Example)

Prefered P/N	Package code	Unit weight(g)	Minimum Package(pcs)	Inner box Quantity(pcs)	Outer carton quantity(pcs)	Delivery mode
SMAF SMA DO-214AC	F1	Approximate 0.034	3000	12000	96000	7" reel
	F2	Approximate 0.034	10000	20000	160000	13" reel
	F4	Approximate 0.034	7500	15000	120000	13" reel



- Notes:
1. Rise Time=7ns max. Input Impedance=1MΩ 22pf
 2. Rise Time=10ns max. Source Impedance=50Ω

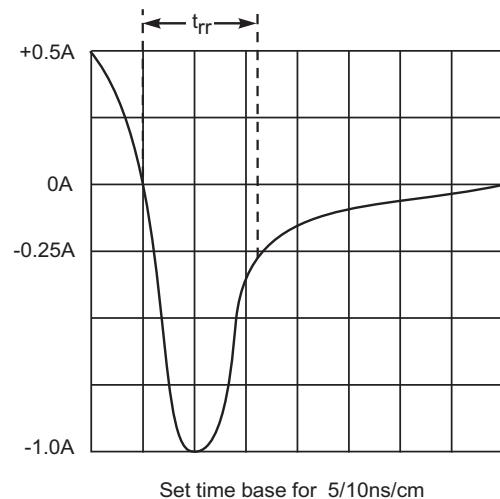


Fig. 5 Reverse Recovery Time Characteristic and Test Circuit