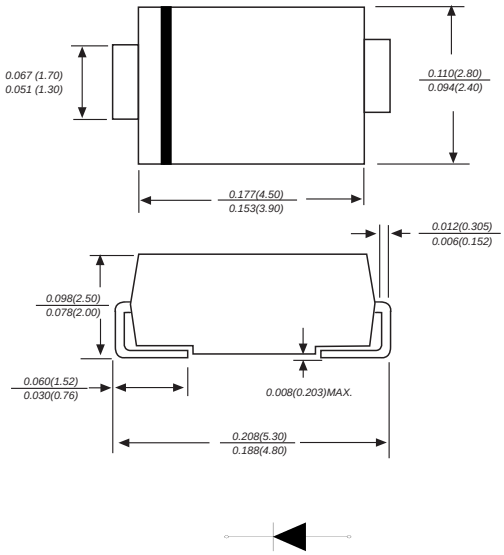
NSS310

3.0Amp Surface Mounted Rectifiers

DO-214AC/SMA

FEATURE

Plastic package has Underwriters Laboratory Flammability Classification 94V-0
For surface mounted applications
Low profile package
Built-in strain relief
Low power loss, high efficiency
High current capability, low forward voltage drop
High surge capability
For use in low voltage high frequency inverters, free wheeling, and polarity protection applications
Guard ring for over voltage protection
High temperature soldering guaranteed: 250ºC /10 seconds at terminals



Dimensions in inches and (millimeters)

MECHANICAL DATA

Case:JEDECDO-214AC SMA moldedplasticbody
Terminals: Solder plated, solder able per MIL-STD-750, Method 2026
Polarity: Color band denotes cathode end

MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

single-phase, half-wave, 60HZ, resistive or inductive lo ad rating at 25ºC, unless otherwise stated, for capacitive load, derate current by 20%

	SYMBOL	NSS310	units
Maximum Recurrent Peak Reverse Voltage	Vrrm	100	V
Maximum RMS Voltage	Vrms	70	V
Maximum DC blocking Voltage	Vdc	100	V
Maximum Average Forward Rectified Current	If(av)	3.0	A
Peak Forward Surge Current 8.3ms single half sine-wave superimposed on rated load	Ifsm	100.0	A
Maximum Forward Voltage atrated Forward current (Note 1)	Vf	0.92	V
Maximum DC Reverse Current Ta =25℃ at rated DC blocking voltage Ta =100℃	Ir	0.02 0.5	uA
Typical Thermal Resistance (Note 2)	Rth(ja)	55.0	℃/W
Storage and Operating Temperature Range	Tstg,Tj	-55 to +175	℃

Note:
1. Pulse test: 300μs pulse width, 1% duty cycle
2. P.C.B. mounted with 0.2 x 0.2inches (5.0 x 5.0mm) copper pad areas

RATINGS AND CHARACTERISTIC CURVES

FIG.1: FORWARD CURRENT DERATING CURVE

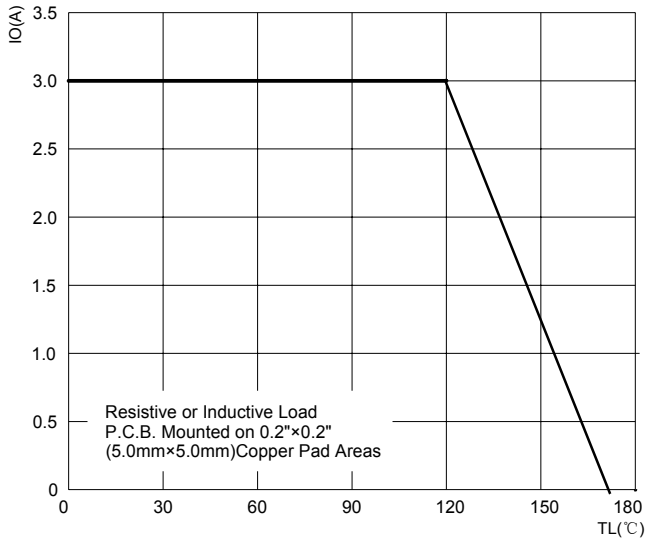


FIG.2: MAXIMUM NON-REPETITIVE FORWARD URGE CURRENT

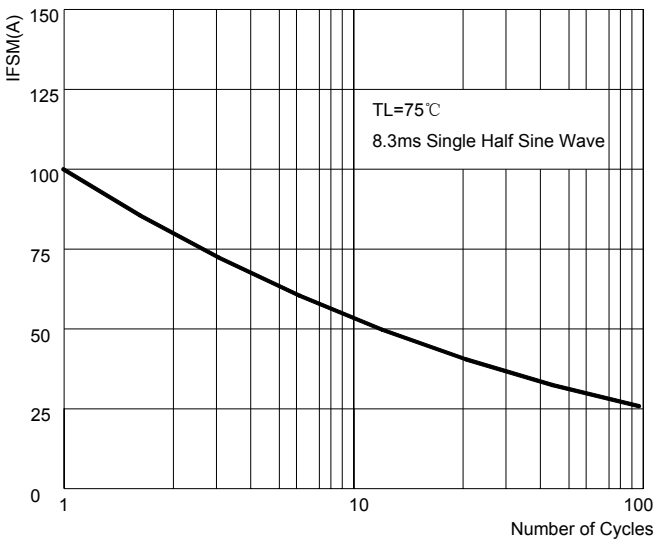


FIG.3: TYPICAL FORWARD CHARACTERISTICS

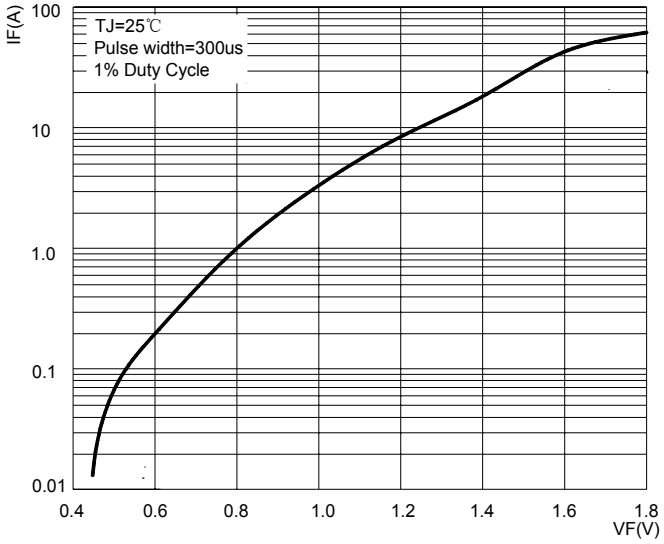


FIG.4：TYPICAL REVERSE CHARACTERISTICS

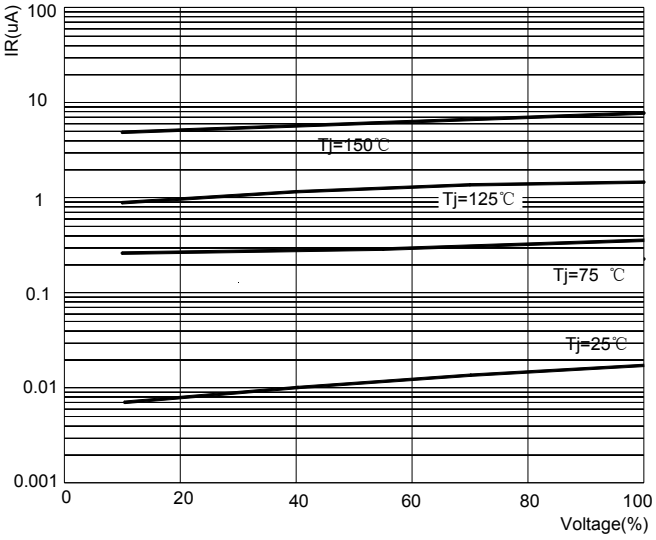


FIG.5: Diagram of circuit and Testing wave form of reverse recovery time

