

Voltage Range

20 to 100 Volts

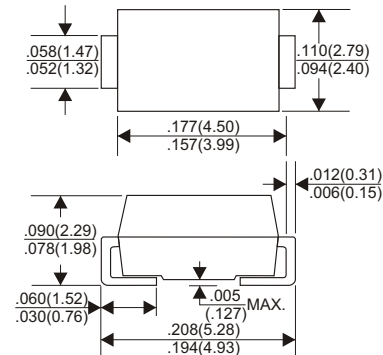
Current

1.0 Ampere

Features

Ideal for surface mount applications
Easy pick and place
Built-in strain relief
Low forward voltage drop

DO-214AC(SMA)



Dimensions in inches and (millimeters)

Mechanical Data

Case: Molded plastic
Epoxy: UL 94V-0 rate flame retardant
Metallurgically bonded construction
Polarity: Color band denotes cathode end
Mounting position: Any
Weight: 0.063 grams



Maximum Ratings And Electrical Characteristics

Rating 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	SS14	UNITS
Maximum Recurrent Peak Reverse Voltage	40	V
Maximum RMS Voltage	28	V
Maximum DC Blocking Voltage	40	V
Maximum Average Forward Rectified Current	1.0	A
See Fig. 1		
Peak Forward Surge Current, 8.3 ms single half sine-wave superimposed on rated load (JEDEC method)	30	A
Maximum Instantaneous Forward Voltage at 1.0A	0.55	V
Maximum DC Reverse Current Ta=25°C	0.2	mA
at Rated DC Blocking Voltage Ta=100°C	10	mA
Typical Junction Capacitance (Note1)	110	pF
Typical Thermal Resistance R JA (Note 2)	50	°C/W
Operating Temperature Range Tj	-65 — +125	°C
Storage Temperature Range Tstg	-65 — +150	°C

NOTES:

1. Measured at 1MHz and applied reverse voltage of 4.0V D.C.
2. Thermal Resistance Junction to Ambient.

Rating And Characteristic Curves

FIG.1-Typical Forward Current Derating Curve

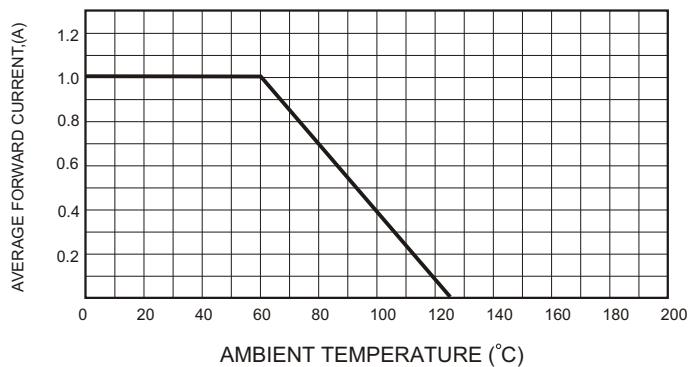


FIG.2-Typical Forward Characteristics

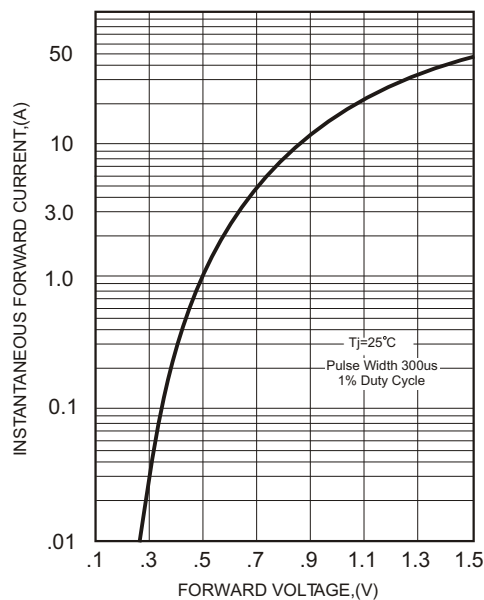


FIG.3-Maximum Non-Repetitive Forward Surge Current

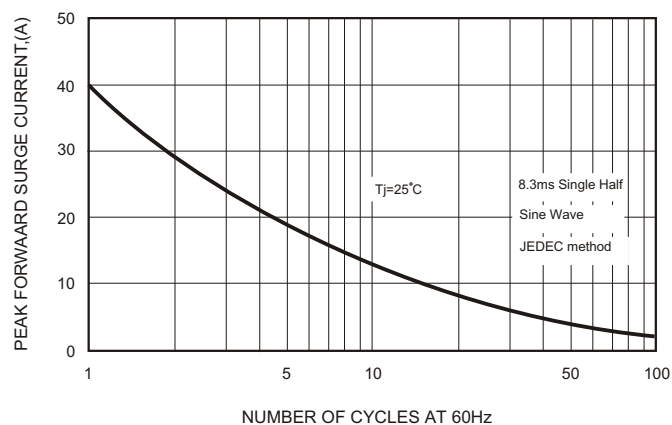


FIG.5 - Typical Reverse Characteristics

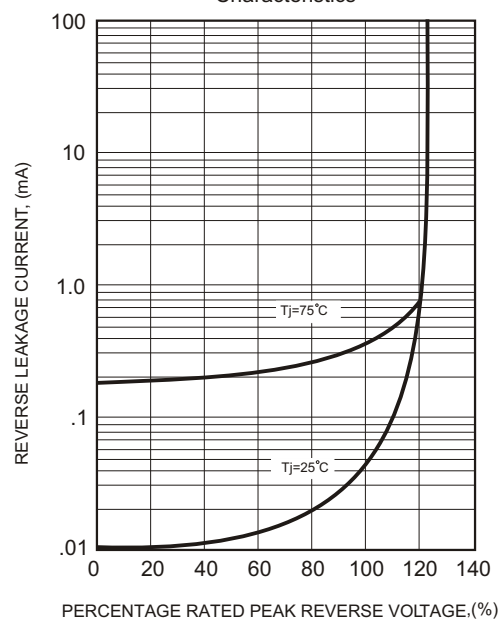
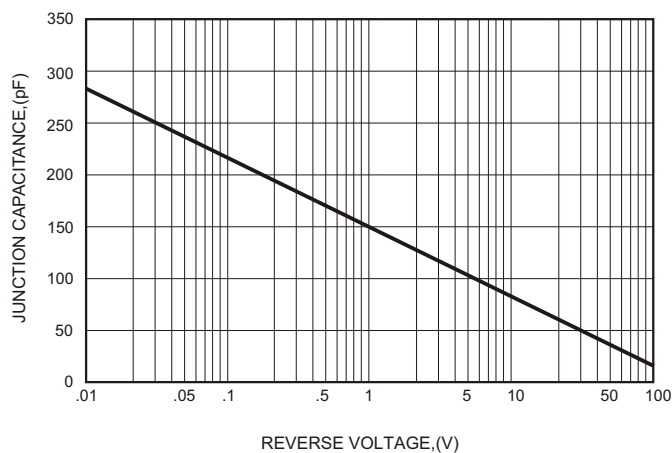


FIG.4-Typical Junction Capacitance



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