

Voltage Range

50 to 1000 Volts

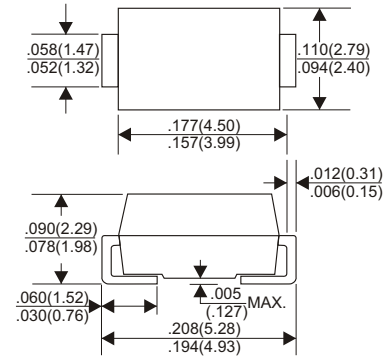
Current

1.0 Ampere

Features

Ideal for surface mount applications
Easy pick and place
Built-in strain relief
Fast switching speed

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	US1D	UNITS
Maximum Recurrent Peak Reverse Voltage	200	V
Maximum RMS Voltage	140	V
Maximum DC Blocking Voltage	200	V
Maximum Average Forward Rectified Current .375"(9.5mm) Lead Length at Ta=55 C	1.0	A
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	1.0	V
Maximum DC Reverse Current Ta=25 C	5.0	μA
at Rated DC Blocking Voltage Ta=100 C	100	μA
Maximum Reverse Recovery Time (Note 1)	50	nS
Typical Junction Capacitance (Note 2)	15	pF
Operating and Storage Temperature Range Tj, Tstg	-50 — +150	°C

NOTES:

- Reverse Recovery Time test condition: IF=0.5A, IR=1.0A, IRR=0.25A
- Measured at 1MHz and applied reverse voltage of 4.0V D.C.

Rating And Characteristic Curves

FIG.1-Typical Forward Characteristics

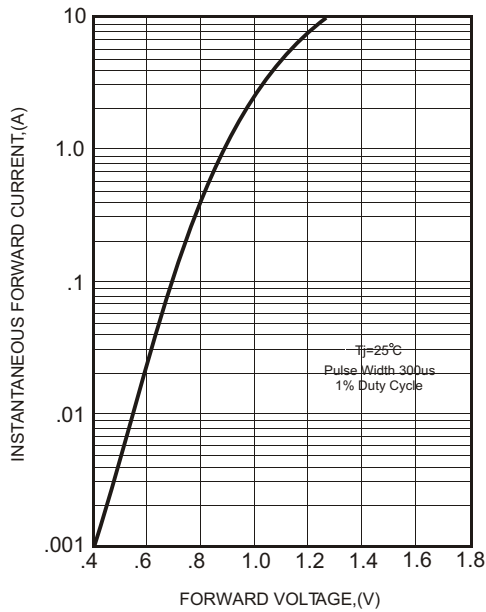
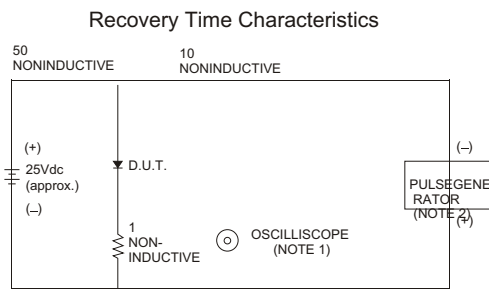


FIG.3- Test Circuit Diagram And Reverse



NOTES: 1. Rise Time= 7ns max., Input Impedance= 1 megohm, 22pF.
2. Rise Time= 10ns max., Source Impedance= 50 ohms.

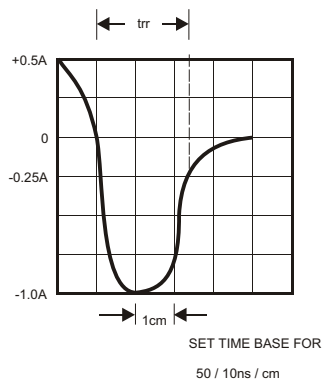


FIG.2-Typical Forward Current Derating Curve

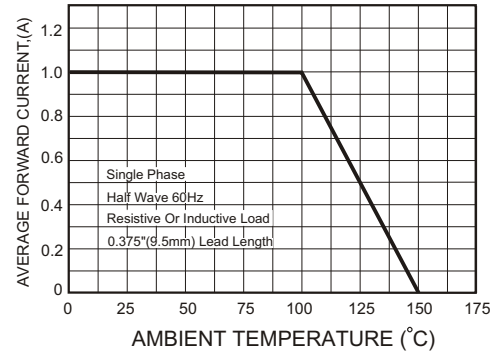


FIG.4-Maximum Non-Repetitive Forward Surge Current

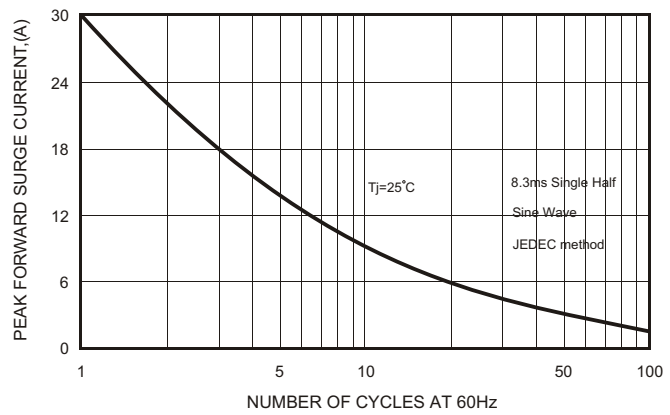
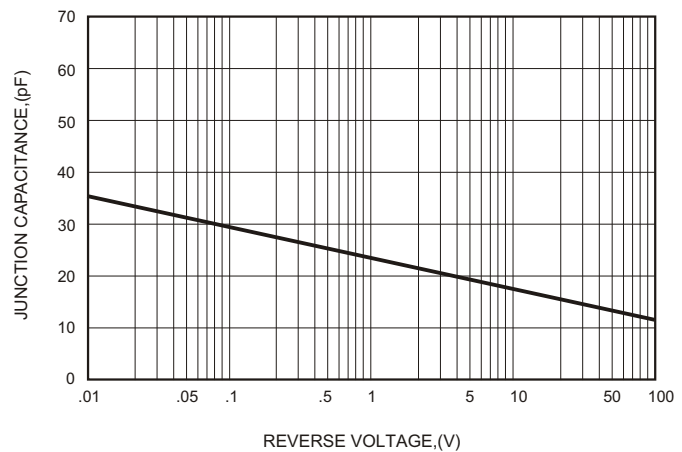


FIG.5-Typical Junction Capacitance



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