



Features

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

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

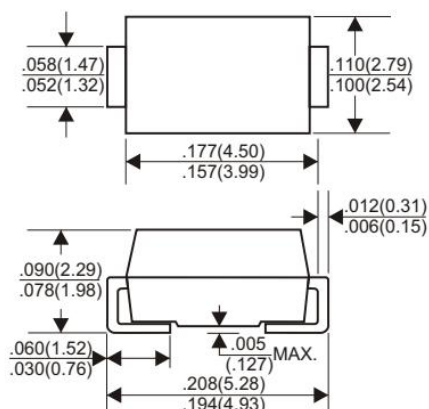
VOLTAGE RANGE

20 to 100 Volts

CURRENT

5.0 Ampere

DO-214AC(SMA)



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	SK52	SK53	SK54	SK55	SK56	SK58	SK59	SK510	UNITS
Maximum Recurrent Peak Reverse Voltage	20	30	40	50	60	80	90	100	V
Maximum RMS Voltage	14	21	28	35	42	56	63	70	V
Maximum DC Blocking Voltage	20	30	40	50	60	80	90	100	V
Maximum Average Forward Rectified Current At $T_L=100\text{ C}$ $I_{p}(\text{)}$	5.0								A
Peak Forward Surge Current, 8.3 ms single half sine-wave superimposed on rated load (JEDEC method)	120								A
Maximum Instantaneous Forward Voltage at 5.0A	0.55		0.70			0.85			V
Maximum DC Reverse Current $T_a=25\text{ C}$	0.1			0.02					mA
at Rated DC Blocking Voltage $T_a=100\text{ C}$	5			2					mA
Typical Junction Capacitance Note1	380								pF C/
Typical Thermal Resistance R_{JL} (Note 2)	10								W
Operating Temperature Range T_J	-65 — +150								C
Storage Temperature Range T_{STG}	-65 — +150								C

NOTES:

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

RATING AND CHARACTERISTIC CURVES (SK52 THRU SK510)

FIG.1-TYPICAL FORWARD CURRENT DERATING CURVE

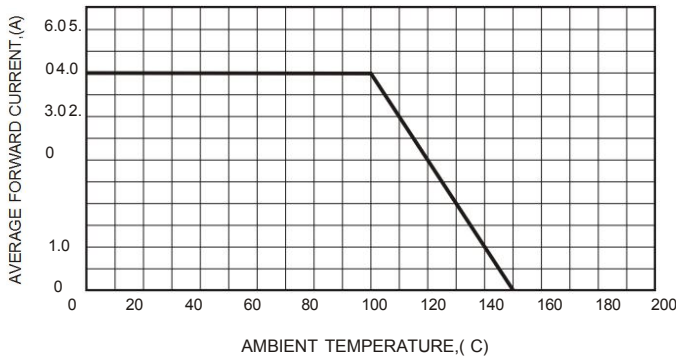


FIG.2-TYPICAL FORWARD CHARACTERISTICS

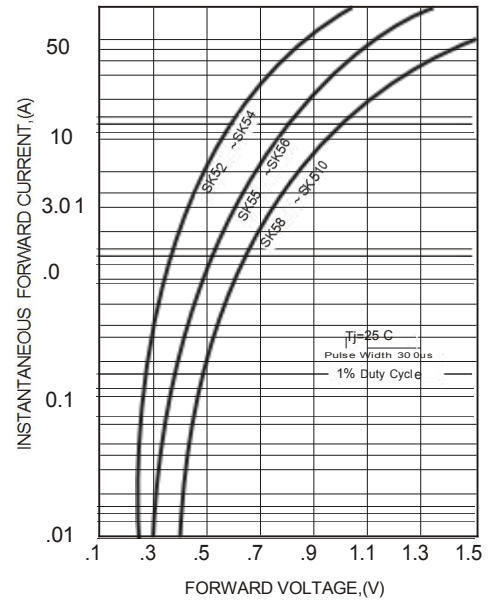


FIG.3-MAXIMUM NON-REPETITIVE FORWARD SURGE CURRENT

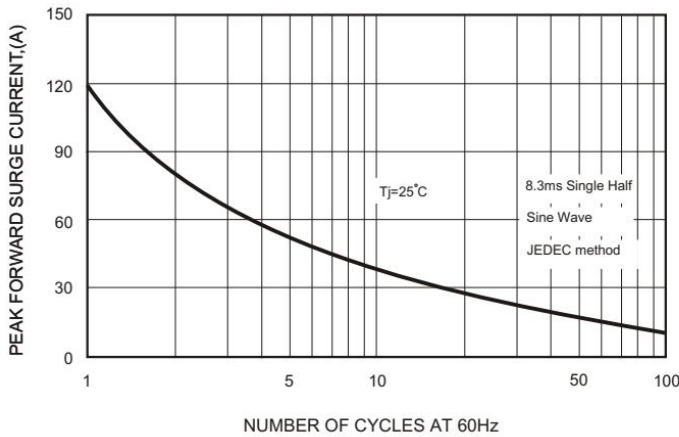


FIG.5 - TYPICAL REVERSE CHARACTERISTICS

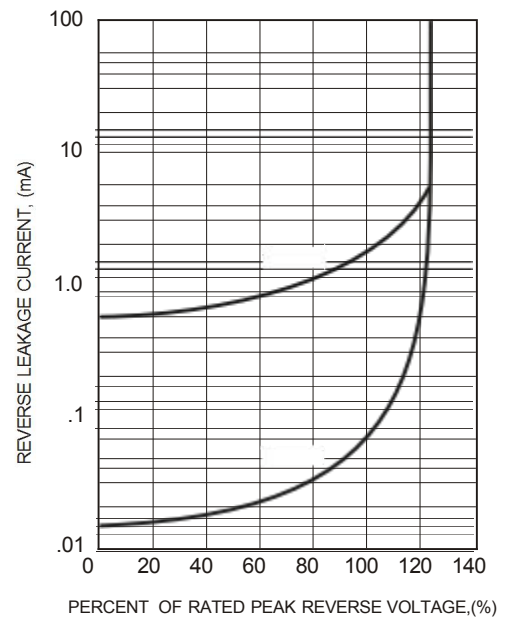


FIG.4-TYPICAL JUNCTION CAPACITANCE

