

**SK22A THRU SK26A**

**VOLTAGE 20V ~ 60V**

**2.0AMP Surface Mount Schottky Barrier Rectifiers**

**FEATURES**

- \* For surface mount applications
- \* Epitaxial construction
- \* Very low forward voltage drop
- \* For use in low voltage, high frequency inverter, free wheeling

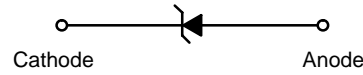
DO- 214AC

SMA



**MECHANICAL DATA**

- \* Case: Molded plastic
- \* Epoxy: UL 94V- 0 rate flame retardant
- \* Polarity: Color band denotes cathode end
- \* Weight: 0.064 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	SK22A	SK23A	SK24A	SK25A	SK26A	UNITS
Maximum Repetitive Peak Reverse Voltage	20	30	40	50	60	V
Maximum RMS Voltage	14	21	28	35	42	V
Maximum DC Blocking Voltage	20	30	40	50	60	V
Maximum Average Forward Rectified Current						
See Fig. 1	2.0					A
Peak Forward Surge Current, 8.3 ms single half sine- wave superimposed on rated load (JEDEC method)	50					A
Maximum Instantaneous Forward Voltage at 2.0A	0.50		0.70			V
Maximum DC Reverse Current $T_a=25^\circ\text{C}$	0.5					mA
at Rated DC Blocking Voltage $T_a=100^\circ\text{C}$	20					mA
Typical Junction Capacitance (Note1)	200					pF
Typical Thermal Resistance RJA (Note 2)	15					°C/W
Operating Temperature Range Tj	- 55 — +125					°C
Storage Temperature Range Tstg	- 55 — +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 (SK22A THRU SK26A)

FIG.1-TYPICAL FORWARD CURRENT DERATING CURVE

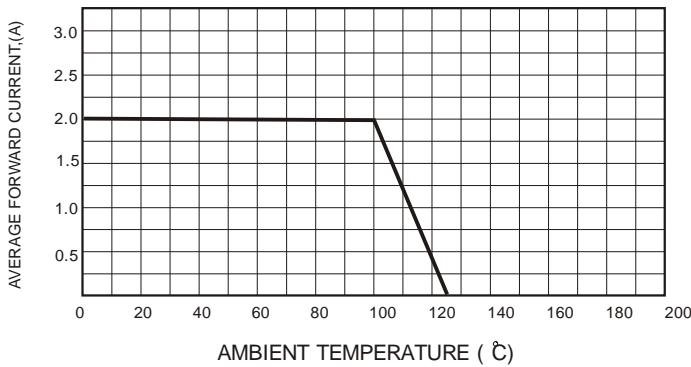


FIG.2-TYPICAL FORWARD CHARACTERISTICS

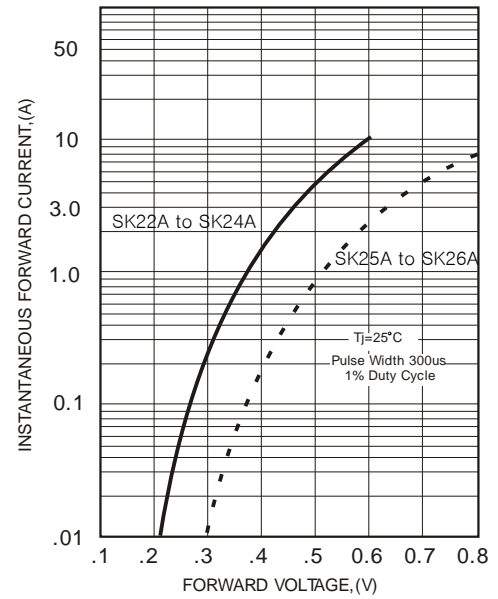


FIG.3-MAXIMUM NON-REPETITIVE FORWARD SURGE CURRENT

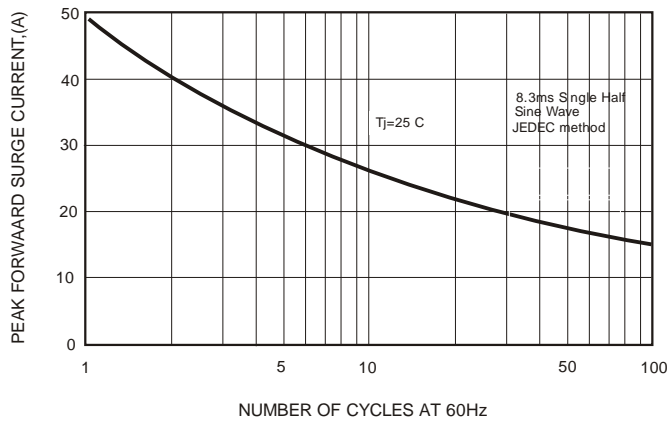


FIG.5 - TYPICAL REVERSE CHARACTERISTICS

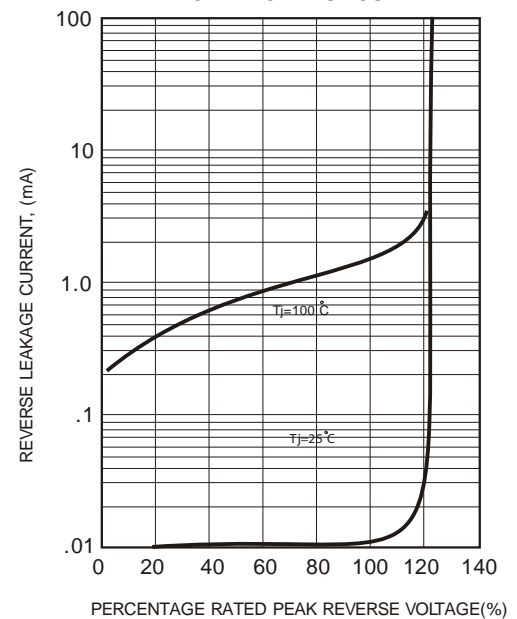
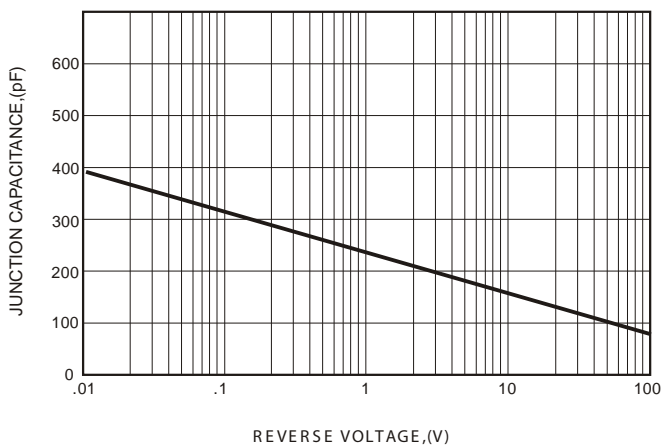


FIG.4-TYPICAL JUNCTION CAPACITANCE



## Package Dimensions in inches and (millimeters)

