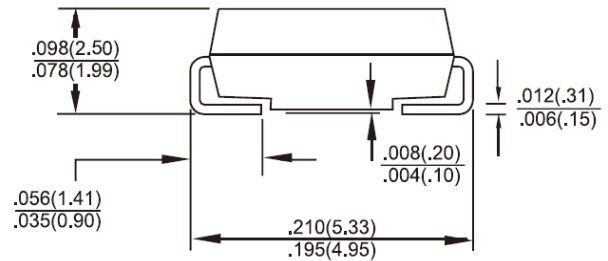
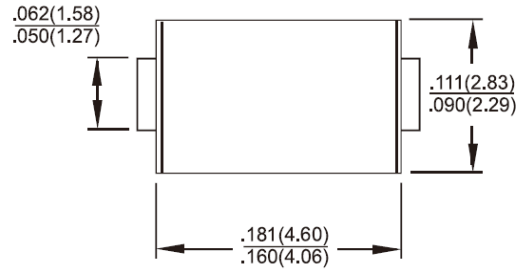




**SK22A - SK215A**  
**2.0AMPS. Surface Mount Schottky Barrier Rectifier**  
**SMA/DO-214AC**

**Features**

- ✧ For surface mounted application
- ✧ Metal to silicon rectifier, majority carrier conduction
- ✧ Low forward voltage drop
- ✧ Easy pick and place
- ✧ High surge current capability
- ✧ Plastic material used carriers Underwriters Laboratory Classification 94V-0
- ✧ Epitaxial construction
- ✧ High temperature soldering: 260°C /10 seconds at terminals
- ✧ Green compound with suffix "G" on packing code & prefix "G" on datecode



**Mechanical Data**

- ✧ Case: Molded plastic
- ✧ Terminal: Pure tin plated, lead free
- ✧ Polarity: Indicated by cathode band
- ✧ Packaging: 8mm tape per EIA STD RS-481
- ✧ Weight: 0.067 grams

**Dimensions in inches and (millimeters)**

**Marking Diagram**



- SK2XA = Specific Device Code
- G = Green Compound
- Y = Year
- M = Work Month

**Maximum Ratings and Electrical Chara**

Rating at 25 °C ambient temperature unless otherwise specified.  
 Single phase, half wave, 60 Hz, resistive or inductive load.  
 For capacitive load, derate current by 20%

Type Number	Symbol	SK 22A	SK 23A	SK 24A	SK 25A	SK 26A	SK 29A	SK 210A	SK 215A	Unit
Maximum Recurrent Peak Reverse Voltage	$V_{RRM}$	20	30	40	50	60	90	100	150	V
Maximum RMS Voltage	$V_{RMS}$	14	21	28	35	42	63	70	105	V
Maximum DC Blocking Voltage	$V_{DC}$	20	30	40	50	60	90	100	150	V
Maximum Average Forward Rectified Current at $T_L$ (See Fig. 1)	$I_{F(AV)}$	2								A
Peak Forward Surge Current, 8.3 ms Single Half Sine-wave Superimposed on Rated Load	$I_{FSM}$	50								A
Maximum Instantaneous Forward Voltage (Note 1) @ 2 A	$V_F$	0.50		0.70		0.85		0.95		V
Maximum DC Reverse Current @ $T_A=25^\circ C$ at Rated DC Blocking Voltage @ $T_A=100^\circ C$ @ $T_A=125^\circ C$	$I_R$	0.5				0.1				mA
		10		5		-				mA
		-				2.0				mA
Non-repetitive Peak Reverse Avalanche Energy $L=40mH$ $T_a=25^\circ C$ max prior to surge, Inductive load switch off	$E_{RSM}$	20								mJ
Typical Junction Capacitance	$C_j$	130				50				pF
Typical Thermal Resistance (Note 2)	$R_{\theta JA}$	88								°C/W
Operating Temperature Range	$T_J$	- 65 to + 125				- 65 to + 150				°C
Storage Temperature Range	$T_{STG}$	- 65 to + 150								°C

Note 1: Pulse Test with PW=300u sec, 1% Duty Cycle

Note 2: Measured on P.C.Board with 0.2" x 0.2"(5.0mm x 5.0mm) Copper Pad Areas.

## RATINGS AND CHARACTERISTIC CURVES (SK22A THRU SK215A)

FIG. 1- MAXIMUM FORWARD CURRENT DERATING CURVE

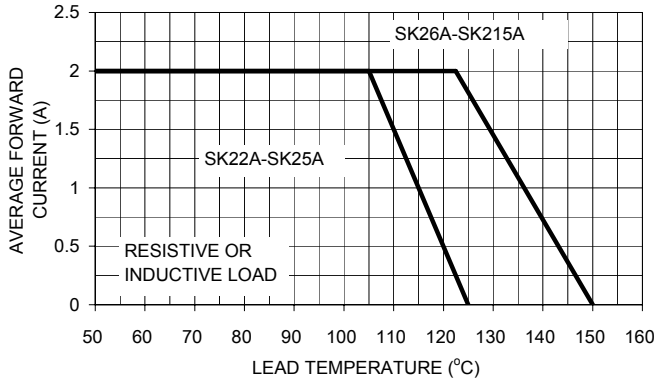


FIG. 2- MAXIMUM NON-REPETITIVE FORWARD SURGE CURRENT

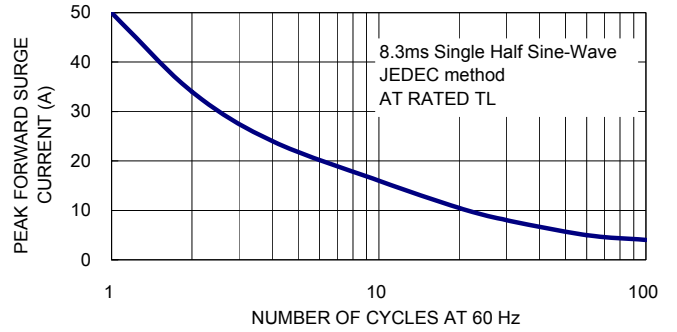


FIG. 3- TYPICAL FORWARD CHARACTERISTICS

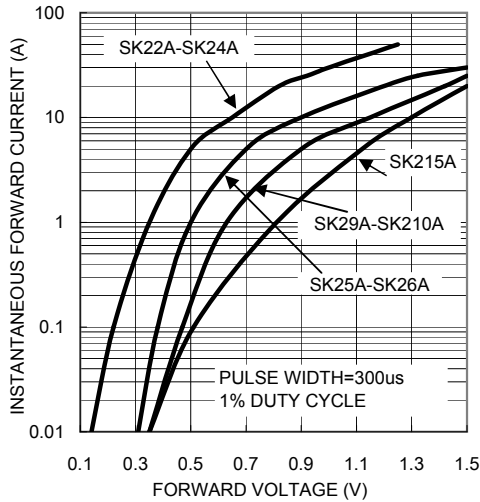


Fig. 4- TYPICAL REVERSE CHARACTERISTICS

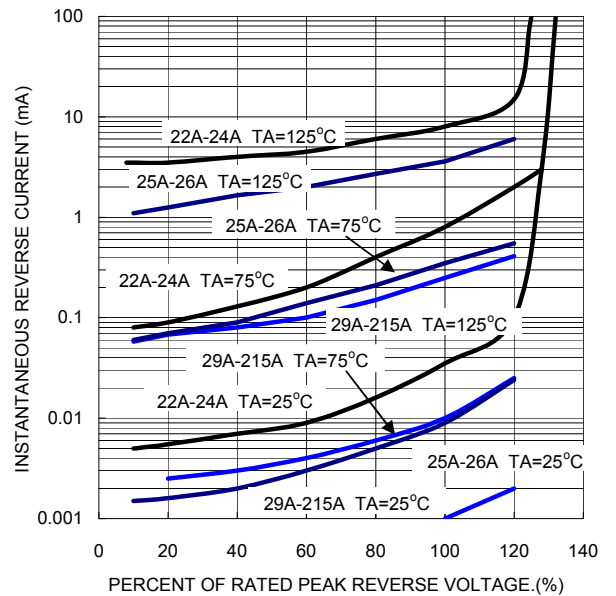


FIG. 5- TYPICAL JUNCTION CAPACITANCE

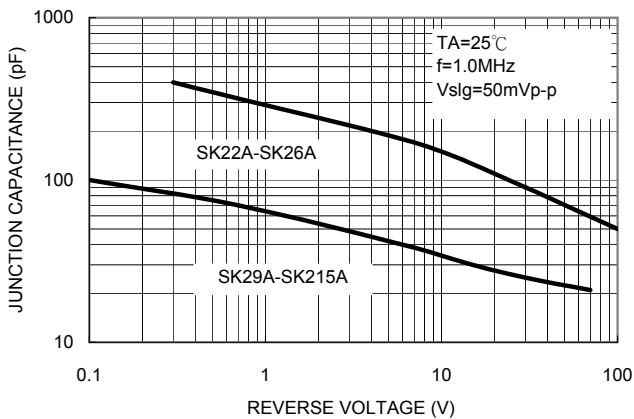


FIG. 6- TYPICAL TRANSIENT THERMAL CHARACTERISTICS

