SK22-S thru SK2B-S

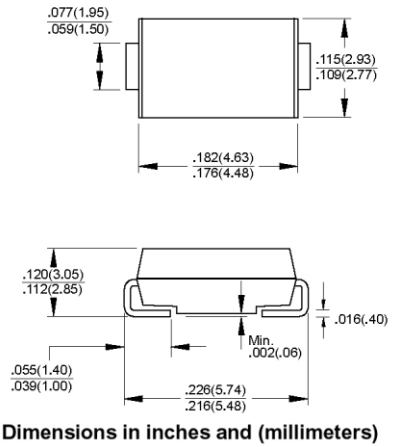
2.0 Amps. Surface Mount Schottky Barrier Rectifiers
Voltage Range 20 to 100 Volts Forward Current 2.0 Amperes

Features

- Ideal for surface mounted application
- Metallurgically bonded construction
- Low forward voltage drop
- Easy pick and place
- High surge current capability
- Plastic material used carries Underwriters Laboratory Classification 94V-O
- Epitaxial construction
- Low leakage current
- High temperature soldering: 260°C / 10 seconds at terminals



DO-214AC (SMAJ)



Dimensions in inches and (millimeters)

Mechanical Data

- Cases: New SMA molded plastic
- Terminals: Solder plated
- Polarity: Indicated by cathode band
- Weight: 0.004 ounce, 0.11 gram

Maximum Ratings and Electrical Characteristics

Ratings 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%

Parameter	Symbols	SK 22-S	SK 23-S	SK 24-S	SK 25-S	SK 26-S	SK 27-S	SK 28-S	SK 29-S	SK 2B-S	Units
Maximum repetitive peak reverse voltage	V_{RRM}	20	30	40	50	60	70	80	90	100	Volts
Maximum RMS voltage	V_{RMS}	14	21	28	35	42	49	56	63	70	Volts
Maximum DC blocking voltage	V_{DC}	20	30	40	50	60	70	80	90	100	Volts
Maximum average forward rectified current at derating lead temperature	$I_{F(AV)}$	2.0									Amps
Peak forward surge current 8.3ms single half sine-wave superimposed on rated load (JEDEC Method)	I_{FSM}	50.0									Amps
Maximum instantaneous forward voltage at 1.0A DC	V_F	0.550			0.700			0.850			Volts
Maximum DC reverse current @ T_A=25°C at rated DC blocking voltage @ T_A=100°C	I_R	0.5 20									mA
Typical thermal resistance (Note 1)	$R_{\theta JA}$	40									°C/W
Typical junction capacitance (Note 2)	C_J	130									pF
Operating temperature range	T_J	-65 to +125			-65 to +150						°C
Storage temperature range	T_{STG}	-65 to +150									°C

Notes: 1. Thermal Resistance (Junction to Ambient).
2. Measured at 1 MHz and applied reverse voltage of 4.0 volts.
3. P.C.B Monuted with 0.2X0.2" (5.0 X 5.0mm2) copper pad area.

RATINGS AND CHARACTERISTIC CURVES

FIG. 1 - TYPICAL FORWARD CURRENT DERATING CURVE

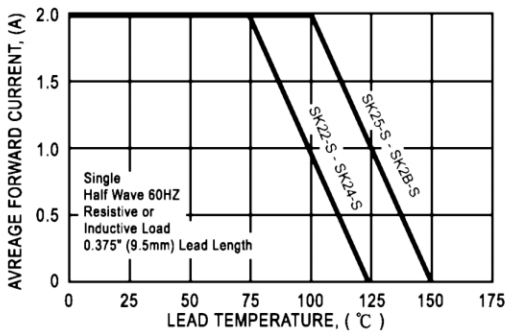


FIG. 2 - TYPICAL INSTANTANEOUS FORWARD CHARCTERISTICS

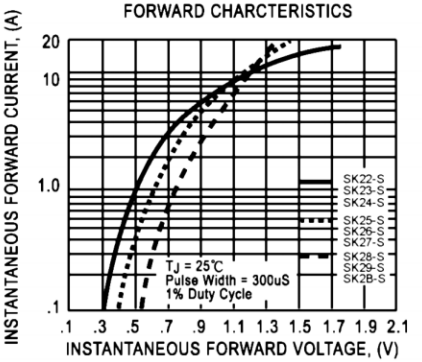


FIG. 3A - TYPICAL REVERSE CHARACTERISTICS

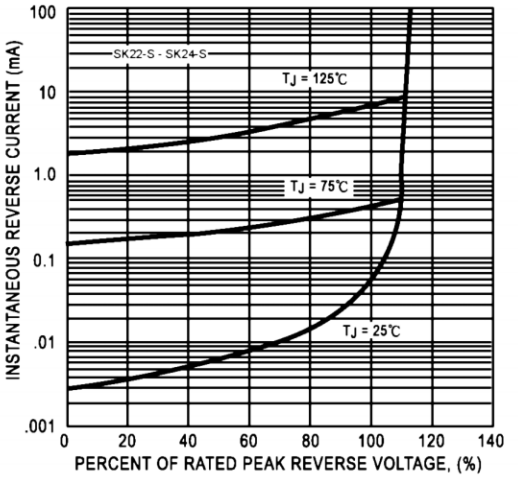


FIG. 3B - TYPICAL REVERSE CHARACTERISTICS

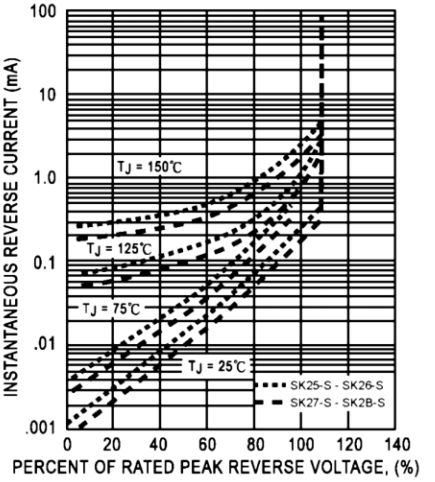
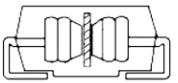


Figure :
New SMA Assembly



Round Lead
Process

FIG. 4 - MAXIMUM NON-REPETITIVE FORWARD SURGE CURRENT

