

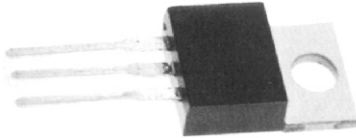
SR1620 thru SR1660

SK1620 thru SK1660

MINIATURE SCHOTTKY BARRIER RECTIFIER



CHENG-YI ELECTRONIC



FEATURES

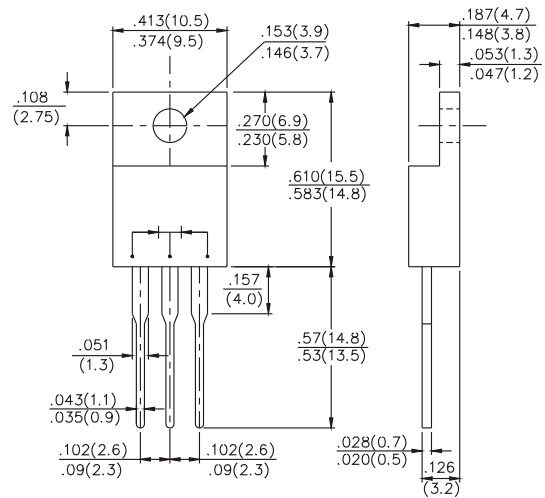
- Low switching noise
- Low thermal resistance
- Low forward voltage
- High current capability
- High switching capability
- High surge capability
- High reliability

MECHANICAL DATA

- Case: TO-220 molded plastic
- Epoxy: UL 94V-0 rate flame retardant
- Lead: MIL-STD-202E method 208 guaranteed
- Mounting position: Any
- Weight: 2.24 grams

VOLTAGE RANGE
20 TO 60 Volts
CURRENT
16.0 Amperes

TO-220AB



Dimensions in inches and (millimeters)

MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

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

MAXIMUM RATINGS (At T_A=25°C unless otherwise noted)

	Symbol	SR1620	SR1630	SR1635	SR1640	SR1645	SR1650	SR1660	UNITS
Ratings	Symbol	SK1620	SK1630	SK1635	SK1640	SK1645	SK1650	SK1660	UNITS
Maximum Recurrent Peak Reverse Voltage	V _{RRM}	20	30	35	40	45	50	60	Volts
Maximum RMS Voltage	V _{RMS}	14	21	25	28	32	35	42	Volts
Maximum DC Blocking Voltage	V _{DC}	20	30	35	40	45	50	60	Volts
Maximum Average Forward Rectified Current .375" (9.5mm) lead length	I _O	16							Amps
Peak Forward Surge Current, 8.3 ms single half sine-wave superimposed on rated load (JEDEC method)	I _{FSM}	150							Amps
Typical Thermal Resistance (Note 1)	R θ JC	3							°C / W
Typical Junction Capacitance (Note 3)	C _J	700				500			pF
Operating Temperature Range	T _J	-65 to +125				-65 to +150			°C
Storage and Operating Temperature Range	T _{STG}	-65 to +150							°C

ELECTRICAL CHARACTERISTICS (At T_A=25°C unless otherwise noted)

ELECTRICAL CHARACTERISTICS (At TA=25°C unless otherwise noted)										
Characteristics		Symbol	SK1620	SK1630	SK1635	SK1640	SK1645	SK1650	SK1660	UNITS
Maximum Instantaneous Forward Voltage at 8.0A DC		VF	.65				.75			Volts
Maximum Average Reverse Cruuent at Rated DC Blocking Voltage	@TA=25°C	IR	1.0						mAmps	
	@TA=100°C		30						mAmps	

- Notes : 1. Thermal Resistance Junction to Case.
2. Suffix "R" for Reverse Polarity
3. Measured at 1MHz and applied reverse voltage of 4.0 Volts.

SR1620 thru SR1660

SK1620 thru SK1660

MINIATURE SCHOTTKY BARRIER RECTIFIER



CHENG-YI ELECTRONIC

RATING AND CHARACTERISTICS CURVES

SR1620 THRU SR1660

SK1620 THRU SK1660

Fig.1 - TYPICAL FORWARD CURRENT DERATING CURVE

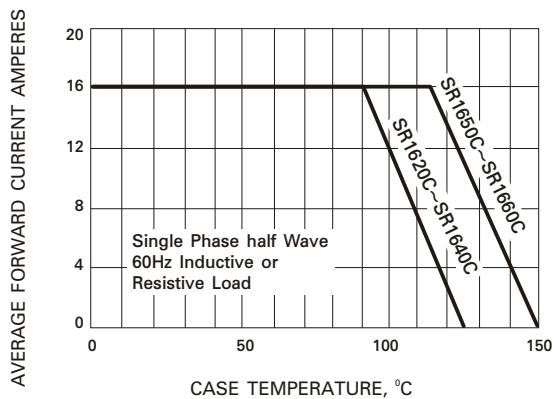


Fig.3 - MAXIMUM NON-REPETITIVE FORWARD SURGE CURRENT

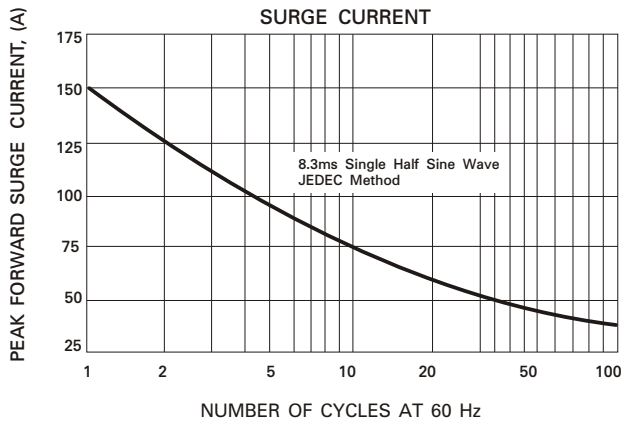


Fig.4 - TYPICAL JUNCTION CAPACITANCE

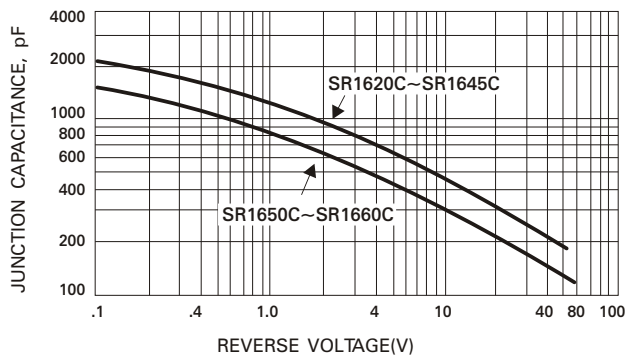


Fig.2 - TYPICAL REVERSE CHARACTERISTICS

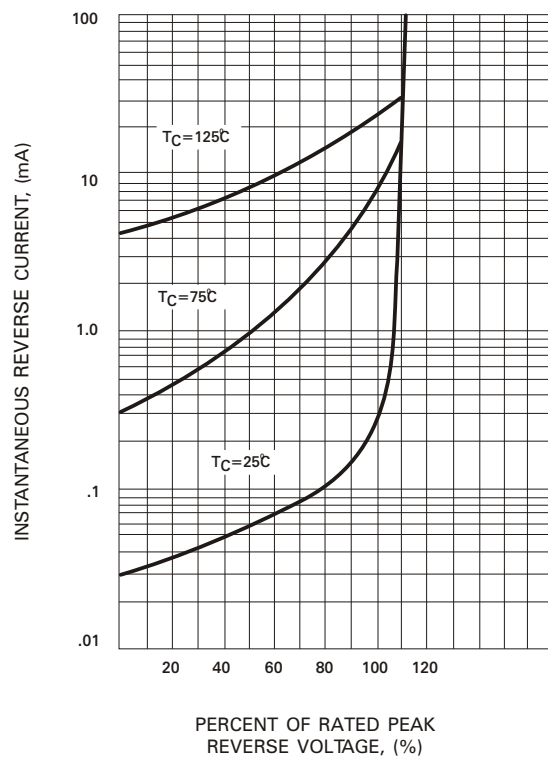


Fig.5 - TYPICAL INSTANTANEOUS FORWARD CHARACTERISTICS

