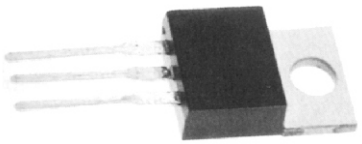
SR1620 thru SR1660
SK1620 thru SK1660

MINIATURE SCHOTTKY BARRIER RECTIFIER

CHENG-YI ELECTRONIC

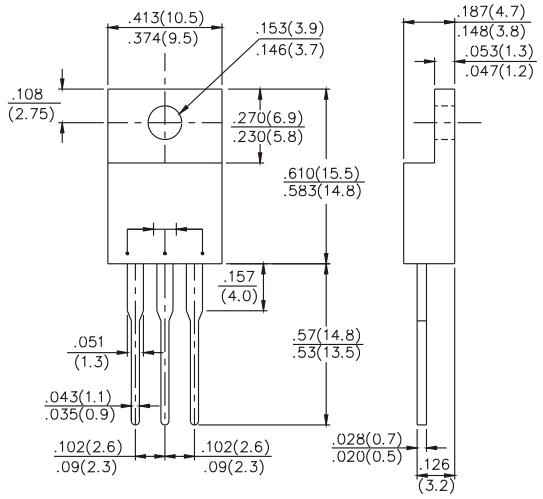


VOLTAGE RANGE
20 TO 60 Volts
CURRENT
16.0 Amperes

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
- Weitht: 2.24 grams

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)	$R\theta_{JC}$	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)

Characteristics		Symbol	SK1620	SK1630	SK1635	SK1640	SK1645	SK1650	SK1660	UNITS
Maximum Instantaneous Forward Voltage at 8.0A DC		V_F	.65				.75			Volts
Maximum Average Reverse Cruuent at Rated DC Blocking Voltage	@T_A=25°C	I_R	1.0							mAmps
	@T_A=100°C		30							mAmps

Notes : 1. Thermal Resistance Junction to Case.
2. Suffix "R" for Reverse Polarity
3. Measured at 1MHz and applied reserse 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

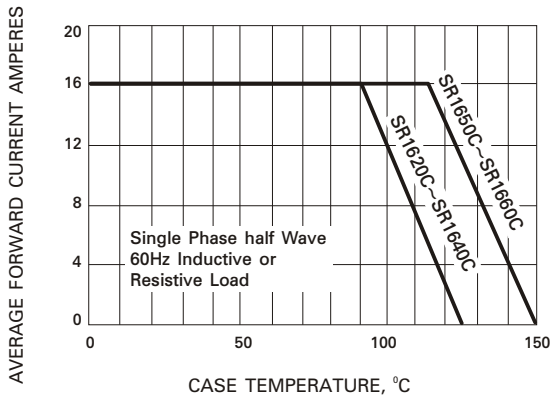


Fig.2 - TYPICAL REVERSE CHARACTERISTICS

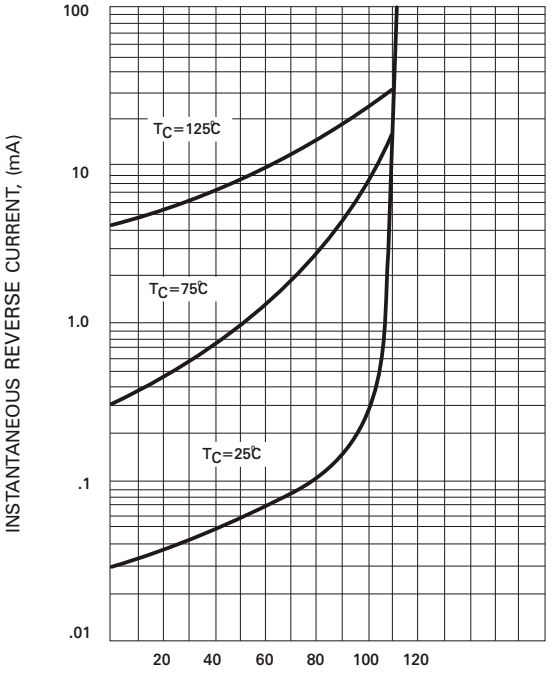


Fig.3 - MAXIMUM NON-REPETITIVE FORWARD SURGE CURRENT

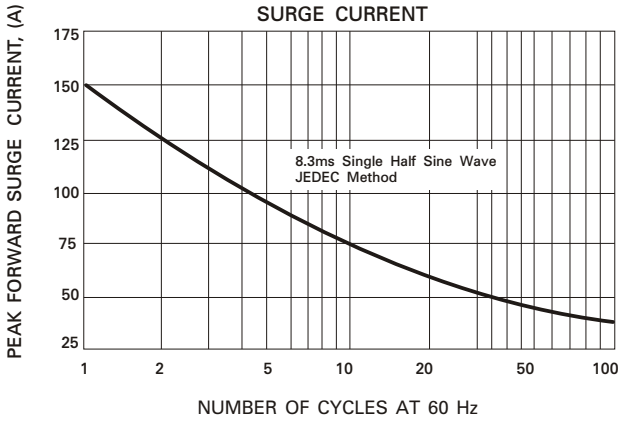


Fig.4 - TYPICAL JUNCTION CAPACITANCE

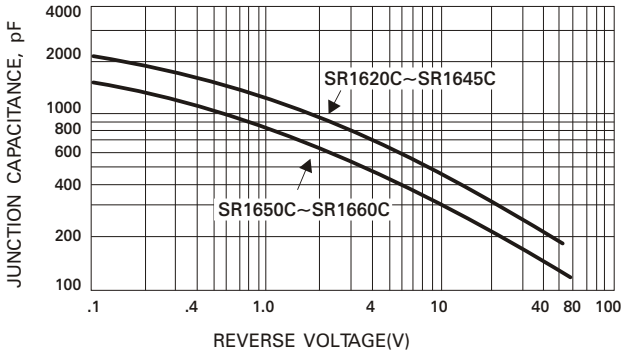


Fig.5 - TYPICAL INSTANTANEOUS FORWARD CHARACTERISTICS

