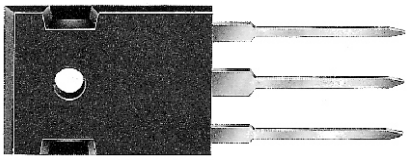
SR3020 thru SR3060
SK3020 thru SK3060

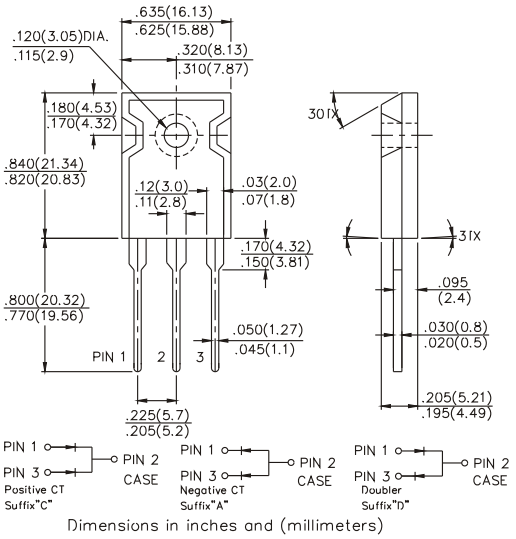
MINIATURE SCHOTTKY BARRIER RECTIFIER

CHENG-YI ELECTRONIC



VOLTAGE RANGE
20 TO 60 Volts
CURRENT
30.0 Amperes

TO-3P



Dimensions in inches and (millimeters)

FEATURES

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

MECHANICAL DATA

- Case: TO-3P molded plastic
- Epoxy: UL 94V-0 rate flame retardant
- Lead: MIL-STD-202 method 208 guaranteed
- Mounting position: Any

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	SR3020	SR3030	SR3035	SR3040	SR3045	SR3050	SR3060	UNITS
Ratings	Symbol	SK3020	SK3030	SK3035	SK3040	SK3045	SK3050	SK3060	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	30.0							Amps
Peak Forward Surge Current, 8.3 ms single half sine-wave superimposed on rated load (JEDEC method)	I_{FSM}	300							Amps
Typical Thermal Resistance (Note 1)	$R\theta_{JC}$	1.4							°C / W
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	SK3020	SK3030	SK3035	SK3040	SK3045	SK3050	SK3060	UNITS
Maximum Instantaneous Forward Voltage at 15.0A DC		V_F	.65				.75			Volts
Maximum Average Reverse Cruuent at Rated DC Blocking Voltage	@T_A=25°C	I_R	5							mAmps
	@T_A=100°C		50							mAmps

Notes : 1. Thermal Resistance Junction to Case.
2. Suffix "A" = Common Anode.

SR3020 thru SR3060
SK3020 thru SK3060

MINIATURE SCHOTTKY BARRIER RECTIFIER

CHENG-YI ELECTRONIC

RATING AND CHARACTERISTICS CURVES
SR3020 THRU SR3060
SK3020 THRU SK3060

Fig.1 - TYPICAL FORWARD CURRENT DERATING CURVE

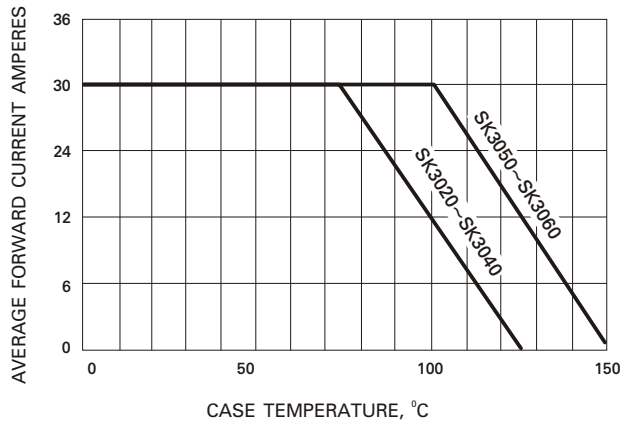


Fig.2 - TYPICAL REVERSE CHARACTERISTICS

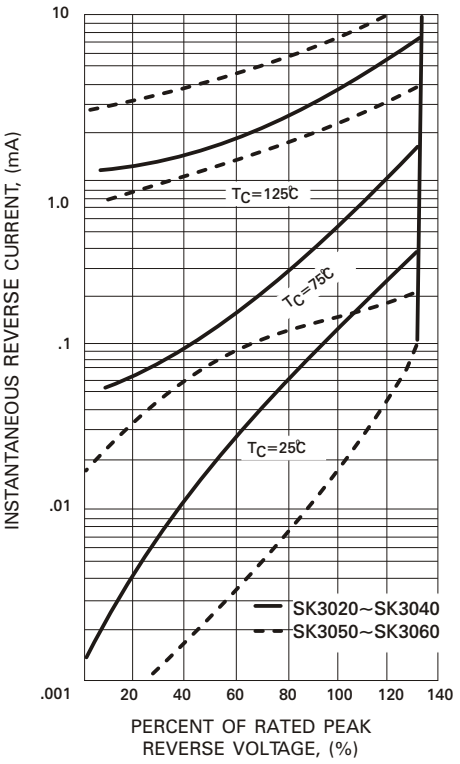


Fig.3 - MAXIMUM NON-REPETITIVE FORWARD SURGE CURRENT

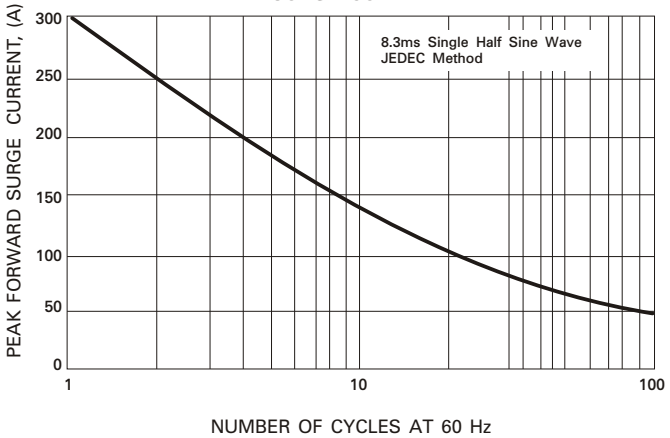


Fig.4 - TYPICAL INSTANTANEOUS FORWARD CHARACTERISTICS