

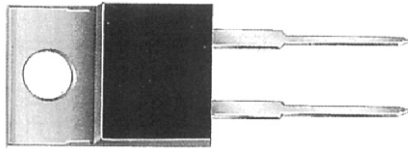
SR1020 thru SR1060

SK1020 thru SK1060

MINIATURE SCHOTTKY BARRIER  
RECTIFIER

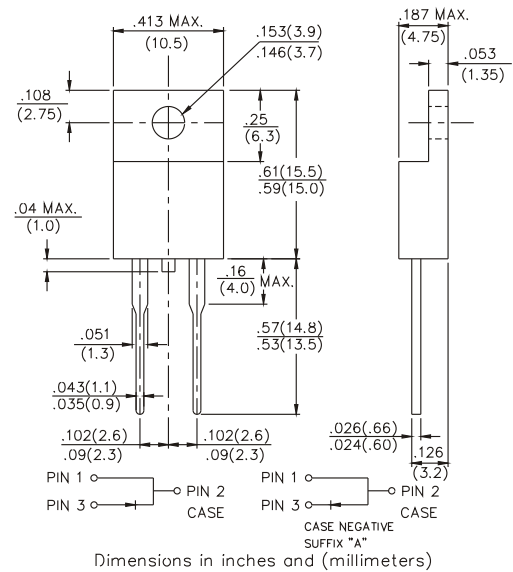


CHENG-YI  
ELECTRONIC



VOLTAGE RANGE  
20 TO 60 Volts  
CURRENT  
10.0 Amperes

TO-220AC



**FEATURES**

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

**MECHANICAL DATA**

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

**MAXIMUM RATINGS** ( At  $T_A=25^{\circ}\text{C}$  unless otherwise noted)

	Symbol	SR1020	SR1030	SR1035	SR1040	SR1045	SR1050	SR1060	UNITS	
Ratings	Symbol	SK1020	SK1030	SK1035	SK1040	SK1045	SK1050	SK1060	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	$I_o$	10							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)	$R_{\theta JC}$	2.5							$^{\circ}\text{C} / \text{W}$	
Typical Junction Capacitance (Note 3)	$C_J$	700				450			pF	
Operating Temperature Range	$T_J$	-65 to +125				-65 to +150			$^{\circ}\text{C}$	
Storage and Operating Temperature Range	$T_{STG}$	-65 to +150								$^{\circ}\text{C}$

**ELECTRICAL CHARACTERISTICS** ( At  $T_A=25^{\circ}\text{C}$  unless otherwise noted)

Characteristics	Symbol	SK1020	SK1030	SK1025	SK1040	SK1045	SK1050	SK1060	UNITS
Maximum Instantaneous Forward Voltage at 10A DC	$V_F$	.65				.75			Volts
Maximum Average Reverse Cruuent at Rated DC Blocking Voltage	@ $T_A=25^{\circ}\text{C}$	1.0							mAmps
	@ $T_A=100^{\circ}\text{C}$	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.

SR1020 thru SR1060

SK1020 thru SK1060

MINIATURE SCHOTTKY BARRIER  
RECTIFIER



CHENG-YI  
ELECTRONIC

RATING AND CHARACTERISTICS CURVES  
SR1020 THRU SR1060  
SK1020 THRU SK1060

Fig.1 - TYPICAL FORWARD CURRENT DERATING CURVE

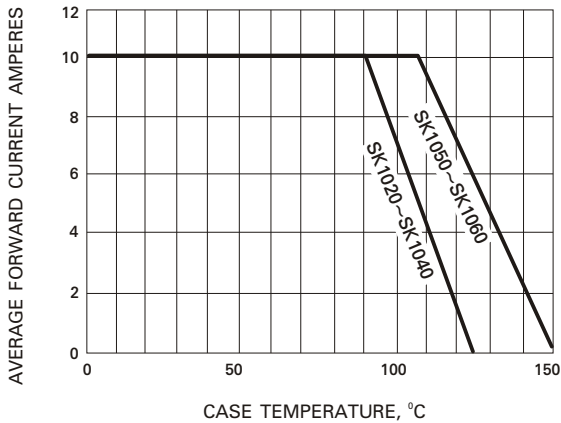


Fig.2 - TYPICAL REVERSE CHARACTERISTICS

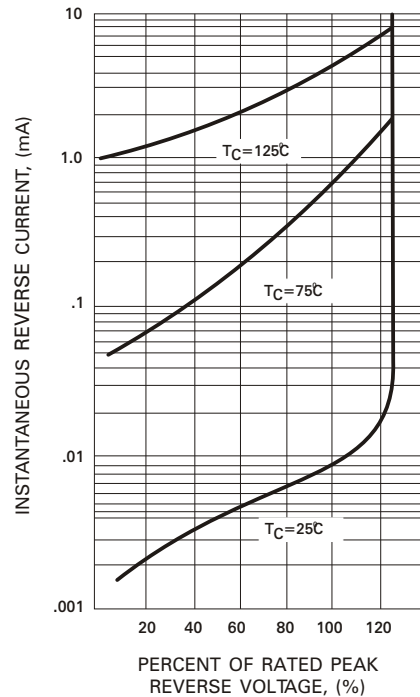


Fig.3 - MAXIMUM NON-REPETITIVE FORWARD SURGE CURRENT

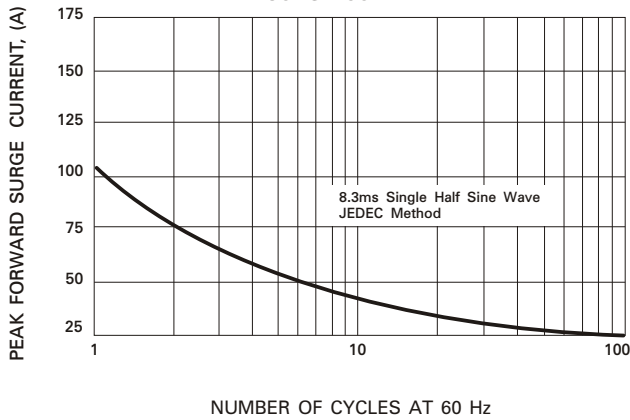


Fig.4 - TYPICAL INSTANTANEOUS FORWARD CHARACTERISTICS

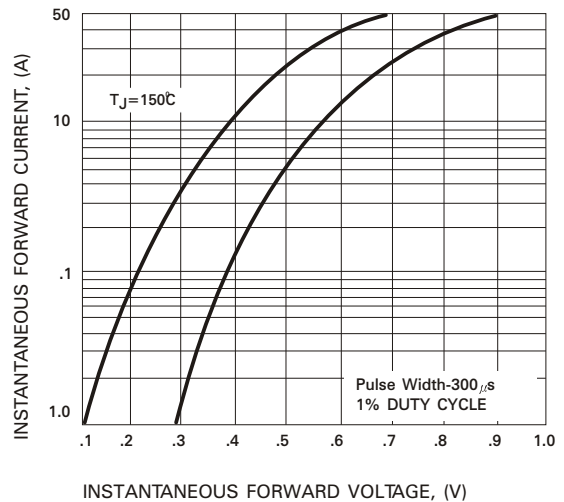


Fig.5 - TYPICAL JUNCTION CAPACITANCE

