

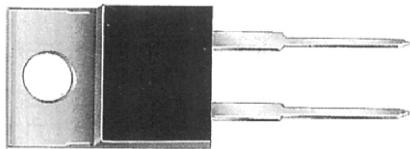
SR1020 thru SR1060

SK1020 thru SK1060

MINIATURE SCHOTTKY BARRIER  
RECTIFIER



CHENG-YI  
ELECTRONIC



**FEATURES**

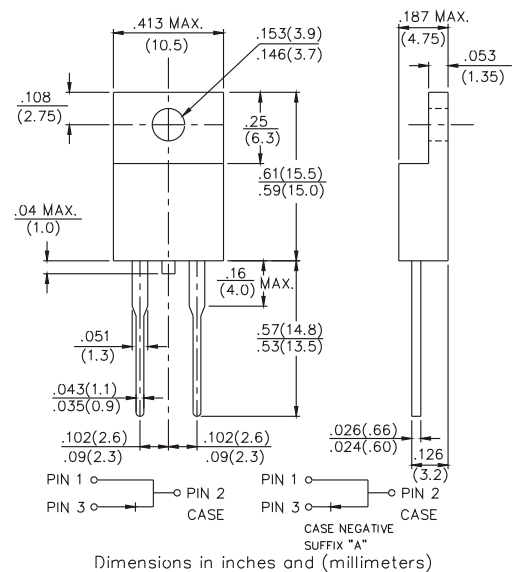
- Low switching noise
- Low forward voltage drop
- Low thermal resistance
- High current capability
- High surge capability
- High reliability

**MECHANICAL DATA**

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

VOLTAGE RANGE  
20 TO 60 Volts  
CURRENT  
10.0 Amperes

**TO-220AC**



**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 Current 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 reverse voltage of 4.0 Volts.

SR1020 thru SR1060

SK1020 thru SK1060

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RATING AND CHARACTERISTICS CURVES  
SR1020 THRU SR1060  
SK1020 THRU SK1060

Fig.1 - TYPICAL FORWARD CURRENT DERATING CURVE

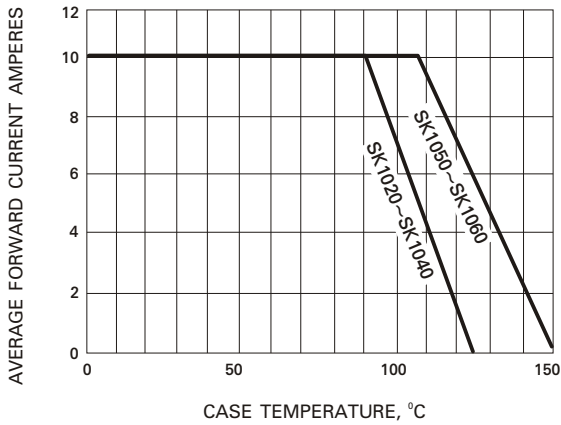


Fig.2 - TYPICAL REVERSE CHARACTERISTICS

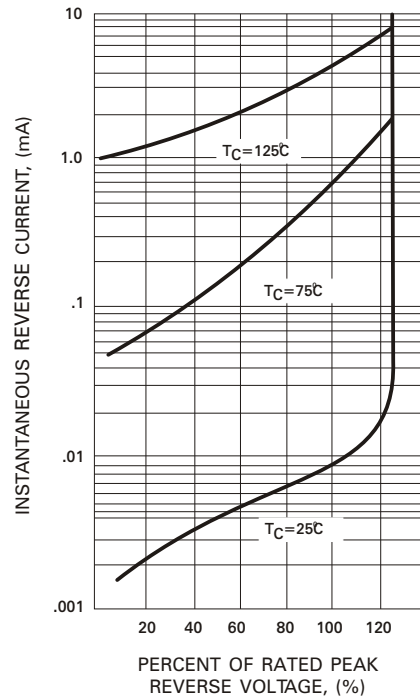


Fig.3 - MAXIMUM NON-REPETITIVE FORWARD SURGE CURRENT

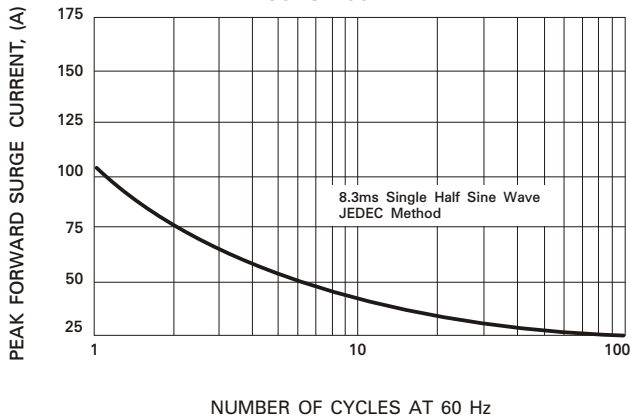


Fig.4 - TYPICAL INSTANTANEOUS FORWARD CHARACTERISTICS

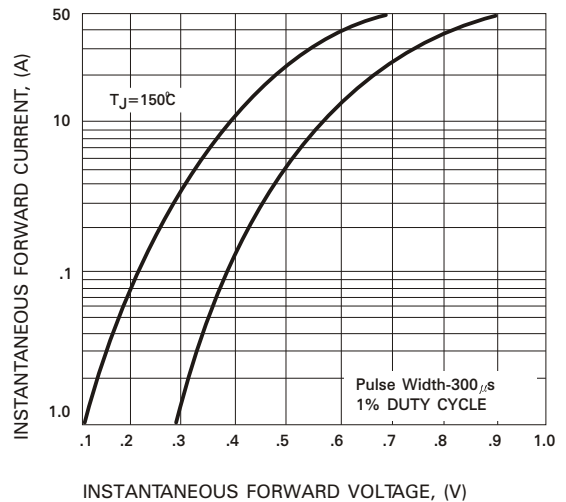


Fig.5 - TYPICAL JUNCTION CAPACITANCE

