

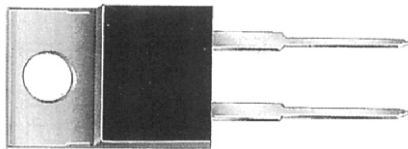
SR1020 thru SR1060

SK1020 thru SK1060

MINIATURE SCHOTTKY BARRIER
RECTIFIER



CHENG-YI
ELECTRONIC



FEATURES

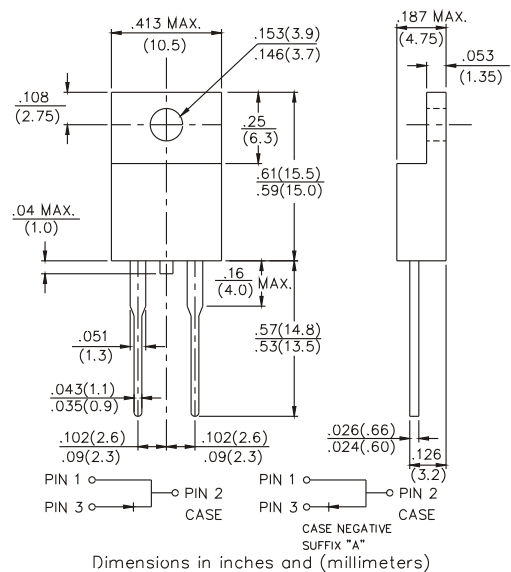
- Low switching noise
- Low forward voltage drop
- Low thermal resistance
- High current capability
- High surge capability
- High reliability

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 $T_A=25^{\circ}C$ 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							$^{\circ}C / W$
Typical Junction Capacitance (Note 3)	C_J	700				450			pF
Operating Temperature Range	T_J	-65 to +125				-65 to +150			$^{\circ}C$
Storage and Operating Temperature Range	T_{STG}	-65 to +150							$^{\circ}C$

ELECTRICAL CHARACTERISTICS (At $T_A=25^{\circ}C$ 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	@ $T_A=25^{\circ}C$	1.0							mAmps
	@ $T_A=100^{\circ}C$	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

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RATING AND CHARACTERISTICS CURVES
SR1020 THRU SR1060
SK1020 THRU SK1060

Fig.1 - TYPICAL FORWARD CURRENT DERATING CURVE

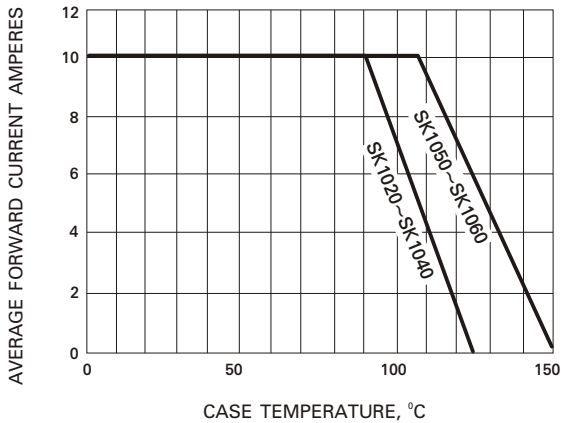


Fig.2 - TYPICAL REVERSE CHARACTERISTICS

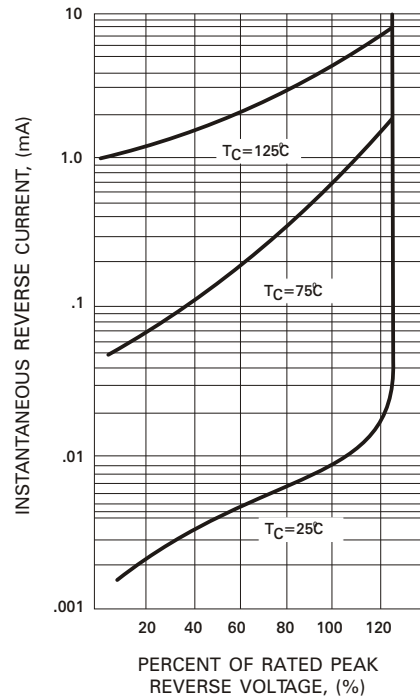


Fig.3 - MAXIMUM NON-REPETITIVE FORWARD SURGE CURRENT

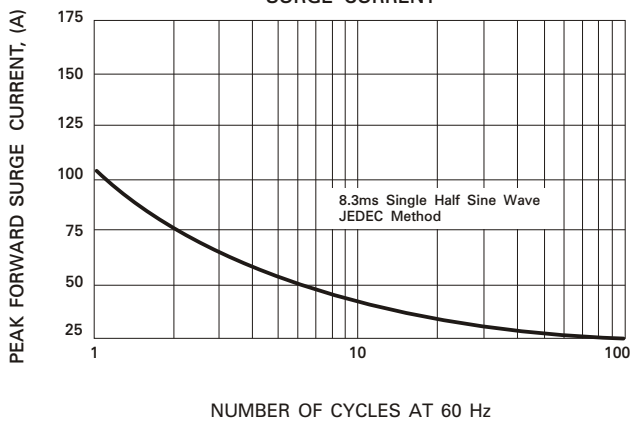


Fig.4 - TYPICAL INSTANTANEOUS FORWARD CHARACTERISTICS

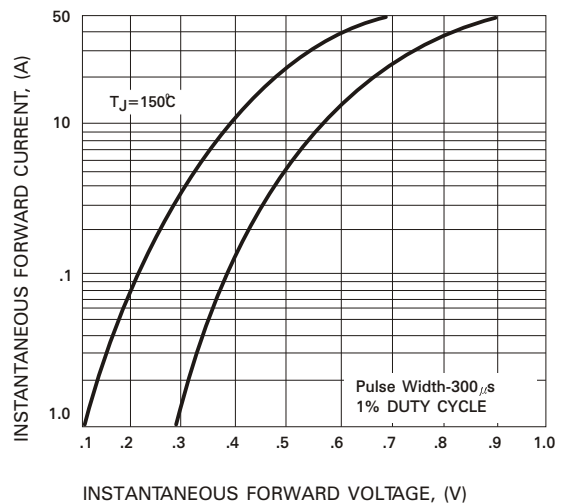


Fig.5 - TYPICAL JUNCTION CAPACITANCE

