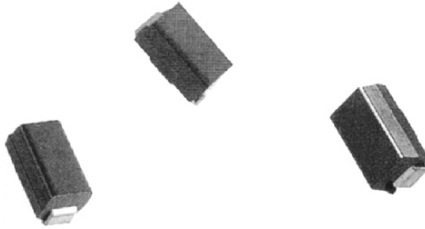


SK120 thru SK160

MINIATURE SCHOTTKY BARRIER RECTIFIER



FEATURES

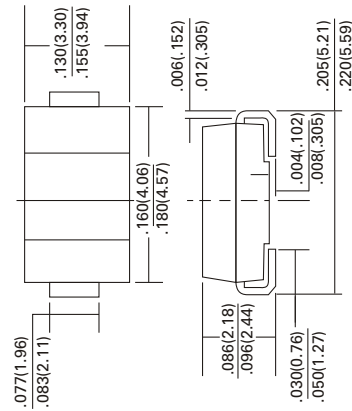
- Low switching noise
- Low forward voltage drop
- High current capability
- High switching capability
- High reliability
- High surge capability

MECHANICAL DATA

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

VOLTAGE RANGE
20 TO 80 Volts
CURRENT
1.0 Amperes

DO-214AA



SMB

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

		SK120	SK130	SK140	SK150	SK160	UNITS
Maximum Recurrent Peak Reverse Voltage	V_{RRM}	20	30	40	50	60	Volts
Maximum RMS Voltage	V_{RMS}	14	21	28	35	42	Volts
Maximum DC Blocking Voltage	V_{DC}	20	30	40	50	60	Volts
Maximum Average Forward Rectified Output .375" (9.5mm) lead length	I_O	1.0					Amps
Peak Forward Surge Current, 8.3 ms single half sine-wave superimposed on rated load (JEDEC method)	I_{FSM}	40					Amps
Typical Thermal Resistance (Note 1)	$R_{\theta JC}$	50					$^\circ\text{C} / \text{W}$
Typical Junction Capacitance (Note 2)	C_j	110					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	20V	30V	40V	50V	60V	UNITS
Maximum Instantaneous Forward Voltage at 1.0A DC	V_F	.55			.70		Volts
Maximum Average Reverse Current at Rated DC Blocking Voltage	@ $T_A=25^\circ\text{C}$	1.0					mAmps
	@ $T_C=100^\circ\text{C}$	10					mAmps

Notes : 1. Thermal Resistance (Junction to Ambient) : Vertical PC Board Mounting, 0.5" (12.7mm) Lead Length
2. Measured at 1 MHz and applied reverse voltage of 4.0 volts.

SK120 thru SK160

MINIATURE SCHOTTKY BARRIER RECTIFIER



**CHENG-YI
ELECTRONIC**

RATING AND CHARACTERISTICS CURVES SK120 THRU SK160

Fig.1 - FORWARD CURRENT DERATING CURVE

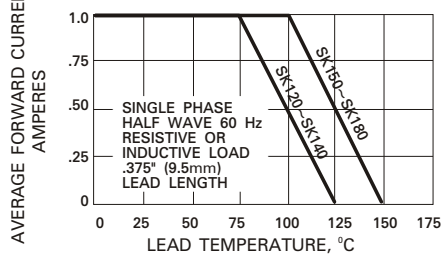


Fig.4 - TYPICAL INSTANTANEOUS FORWARD CHARACTERISTICS

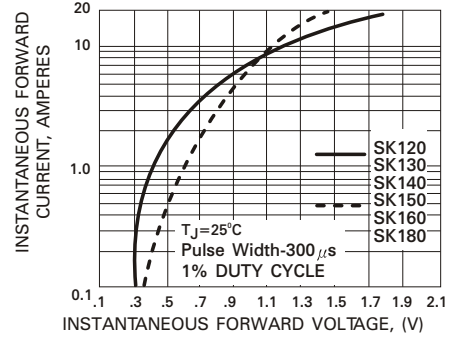


Fig.3A - TYPICAL FORWARD CHARACTERISTICS

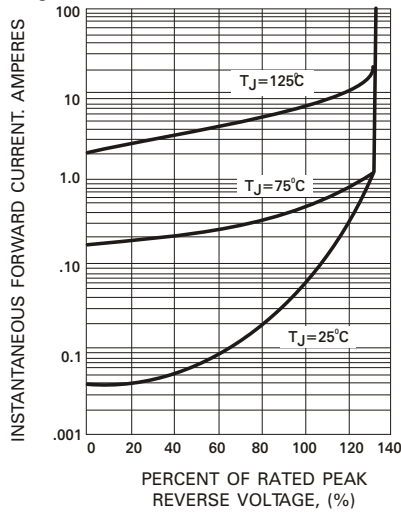


Fig.3B - TYPICAL REVERSE CHARACTERISTICS

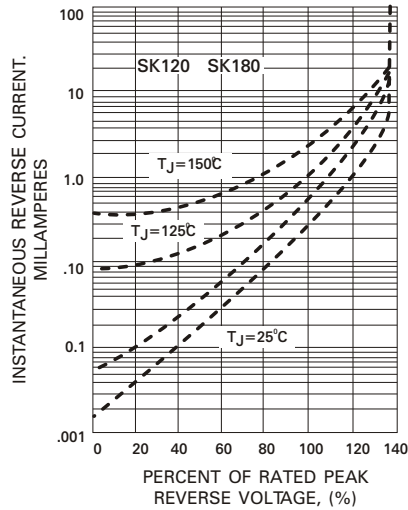


Fig.4 - TYPICAL JUNCTION CAPACITANCE

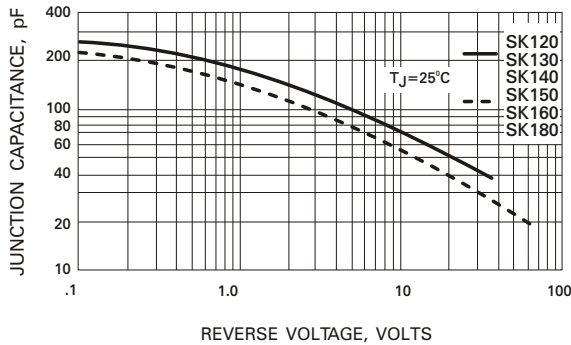


Fig.5 - MAXIMUM NON-REPETITIVE SURGE CURRENT

