

HITANO ENTERPRISE CORP.

SK12 THRU SK110

TECHNICAL SPECIFICATIONS OF SURFACE MOUNT SCHOTTKY BARRIER RECTIFIER

VOLTAGE RANGE - 20 to 100 Volts

CURRENT - 1.0 Ampere

FEATURES

- * Ideal for surface mounted applications
- * Low leakage current
- * Compliant to RoHS, REACH

MECHANICAL DATA

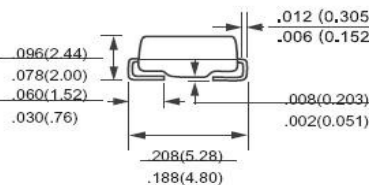
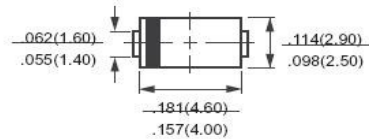
- * Case: Molded plastic
- * Epoxy: UL 94V-0 rate flame retardant
- * Terminals: Solder plated solderable per MIL-STD-750, Method 2026
- * Polarity: As marked
- * Mounting position: Any
- * Weight: 0.064 gram

MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Ratings at 25 °C ambient temperature unless otherwise specified.
Single phase, half wave, 60 Hz, resistive or inductive load.
For capacitive load, derate current by 20%.



SMA (DO-214AC)



Dimensions in inches and (millimeters)

	SYMBOL	SK12	SK14	SK15	SK16	SK18	SK110	UNITS
Maximum Recurrent Peak Reverse Voltage	V _{RRM}	20	40	50	60	80	100	Volts
Maximum RMS Voltage	V _{RMS}	14	28	35	42	56	70	Volts
Maximum DC Blocking Voltage	V _{DC}	20	40	50	60	80	100	Volts
Maximum Average Forward Rectified Current at Derating Lead Temperature	I _O	1.0						Amps
Peak Forward Surge Current 8.3 ms single half sine-wave superimposed on rated load (JEDEC Method)	I _{FSM}	30						Amps
Maximum Instantaneous Forward Voltage at 1.0A DC	V _F	0.55	0.70		0.85			Volts
Maximum DC Reverse Current at Rated DC Blocking Voltage	@T _A = 25°C	1.0						mAmps
	@T _A = 100°C	20						
Typical Thermal Resistance (Note 1)	R _{JA}	88						°C / W
Typical Junction Capacitance (Note 2)	C _J	110						pF
Operating Temperature Range	T _J	-55 to + 150						°C
Storage Temperature Range	T _{STG}	-55 to + 150						°C

- NOTES : 1. Thermal Resistance (Junction to Ambient).
2. Measured at 1 MHz and applied reverse voltage of 4.0 volts.
3. P.C.B Mounted with 0.2X0.2*(5.0X5.0mm²) copper pad area.

RATING AND CHARACTERISTIC CURVES (SK12 THRU SK110)

FIG. 1 - TYPICAL FORWARD CURRENT DERATING CURVE

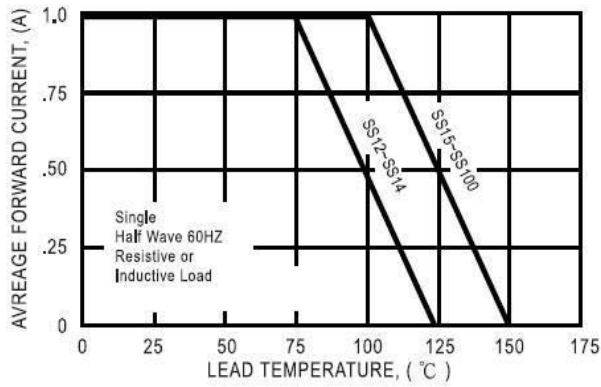


FIG. 2 - TYPICAL INSTANTANEOUS FORWARD CHARACTERISTICS

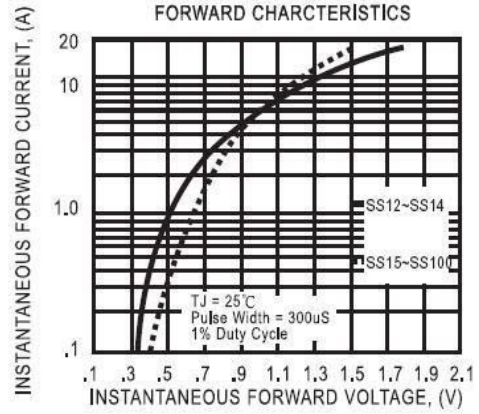


FIG. 3A - TYPICAL REVERSE CHARACTERISTICS

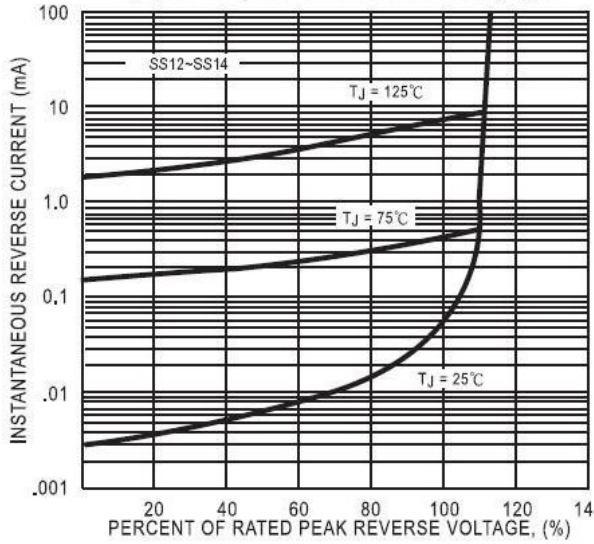


FIG. 3 - TYPICAL REVERSE CHARACTERISTICS

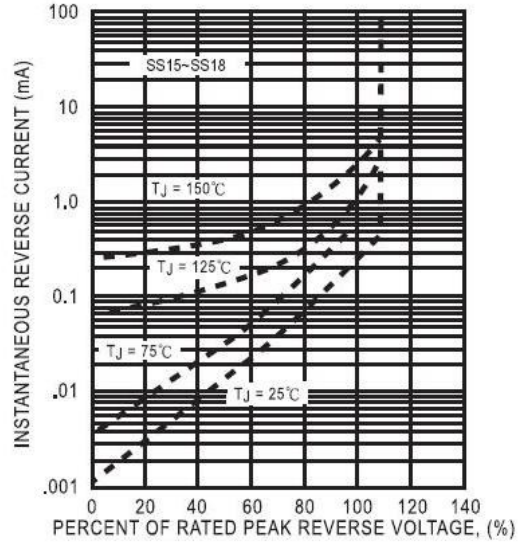


FIG. 4 - TYPICAL JUNCTION CAPACITANCE

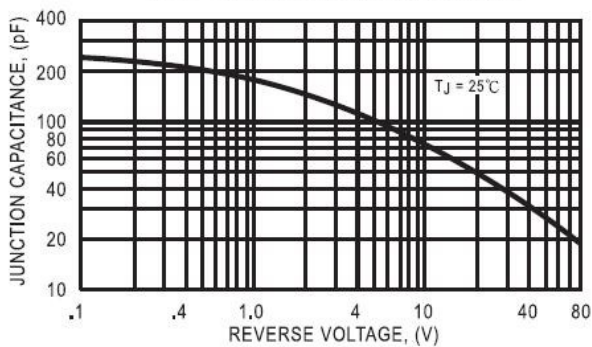


FIG. 5 - MAXIMUM NON-REPETITIVE FORWARD SURGE CURRENT

