DC COMPONENTS CO., LTD.

RECTIFIER SPECIALISTS

SK32 THRU SK320

TECHNICAL SPECIFICATIONS OF SCHOTTKY BARRIER RECTIFIER

VOLTAGE RANGE - 20 to 200 Volts *CURRENT - 3.0 Amperes*

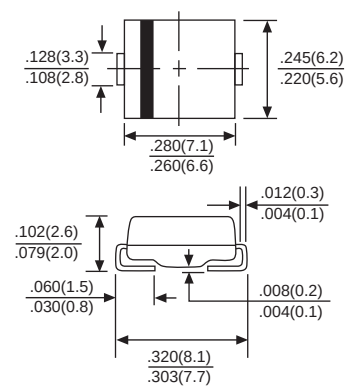
FEATURES

* Ideal for surface mounted applications
* Low leakage current
* Glass passivated junction
* Low profile package
* Low power loss, high efficiency
* High surge capability

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: 0.24 gram

SMC (DO-214AB)



Dimensions in inches and (millimeters)

MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

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

		SYMBOL	SK32	SK33	SK34	SK35	SK36	SK38	SK310	SK315	SK320	UNITS
Maximum Recurrent Peak Reverse Voltage		V_{RRM}	20	30	40	50	60	80	100	150	200	Volts
Maximum RMS Voltage		V_{RMS}	14	21	28	35	42	56	70	105	140	Volts
Maximum DC Blocking Voltage		V_{DC}	20	30	40	50	60	80	100	150	200	Volts
Maximum Average Forward Rectified Current at Derating Lead Temperature		I_O	3.0									Amps
Peak Forward Surge Current 8.3 ms single half sine-wave superimposed on rated load (JEDEC Method)		I_{FSM}	100									Amps
Maximum Instantaneous Forward Voltage at 3.0A DC		V_F	0.55			0.70		0.85		0.95		Volts
Maximum DC Reverse Current at Rated DC Blocking Voltage	@T_A = 25°C	I_R	2.0									mAmps
	@T_A = 100°C		10									
Typical Thermal Resistance (Note 1)		$R\theta_{JL}$	20									°C/W
Storage Operating Temperature Range		T_J, T_{STG}	-55 to +150									°C

NOTES : 1. Thermal Resistance (Junction to Lead)

2. Measured at 1 MHz and applied reverse voltage of 4.0 volts.

3. P.C.B. mounted with 0.55x0.55"(14.0x14.0mm^2) copper pad area.

RATING AND CHARACTERISTIC CURVES (SK32 THRU SK320)

FIG.1
TYPICAL FORWARD CURRENT DERATING CURVE

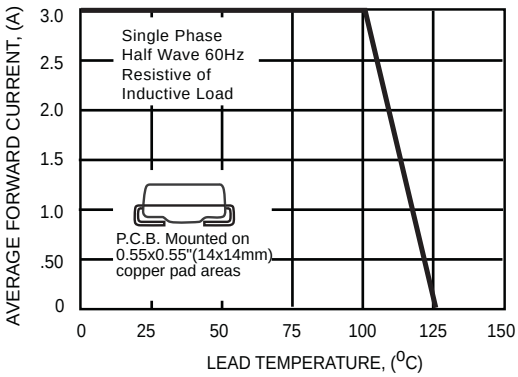


FIG.2
TYPICAL REVERSE CHARACTERISTICS

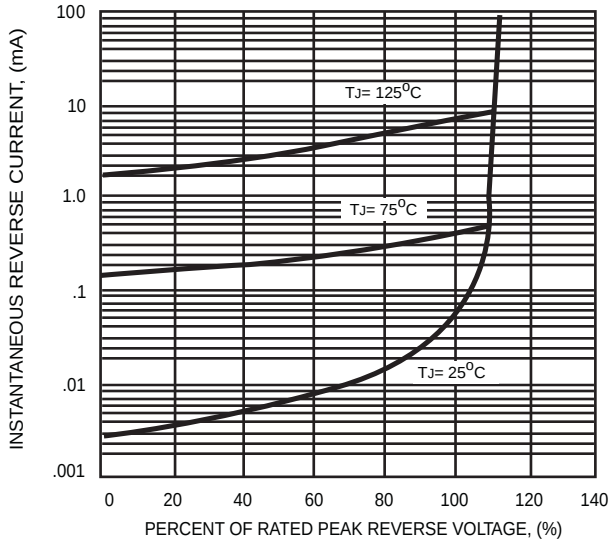


FIG.3
MAXIMUM NON-REPETITIVE FORWARD
SURGE CURRENT

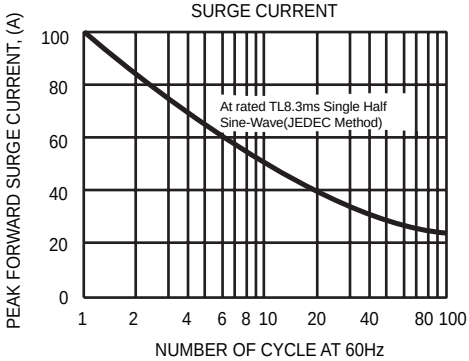
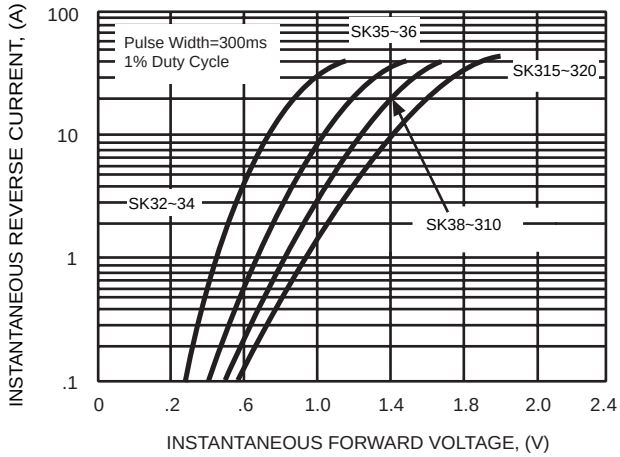


FIG.4
TYPICAL INSTANTANEOUS FORWARD
CHARACTERISTICS



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